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DEFENSE ENVIRONMENTAL RESTORATION PROGRAM



ANNUAL REPORT TO CONGRESS

FOR

FISCAL YEAR 1986

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| <p>This is the first annual report to the Congress on the Defense Environmental Restoration Program in response to the specific information requested by Section 211 of the Superfund Amendment and Reauthorization Act. It also provides information on other program initiatives.</p> <p>The report includes: a) Status of the Department of Defense Installation Restoration Program for Fiscal Year 1986, b) Fiscal Year 1986 Annual Report of the Defense Environmental Restoration Program, c) Installation Restoration Program Defense Priorities List for Fiscal Year 1987, d) Status Report of DoD sites proposed for the NPL, March 1987, and e) Report of the DoD/EPA/DOE Working Group to Explore Hazardous Waste Technology Cooperative Efforts, December 1986.</p> | | | | |
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ASSISTANT SECRETARY OF DEFENSE

WASHINGTON, D C. 20301-6000

ACQUISITION AND
LOGISTICS

MAR 17 1987

E

Honorable Sam Nunn
Chairman, Committee on Armed Services
United States Senate
Washington, DC 20510

Dear Mr. Chairman:

The attached report provides the information requested under the provisions of Section 211 of the Superfund Amendments and Reauthorization Act of 1986 (SARA), 10 USC 2706.

In FY 1986, the \$360 million provided for Environmental Restoration was used to expand and accelerate studies and remedial actions at more than 1,900 sites on DoD installations. In addition, we have completed or have underway investigations at more than 1,600 formerly owned or used sites and remedial projects at 125 of these sites.

For FY 1987, \$376 million has been appropriated to continue the program momentum. Our top priority continues to be the cleanup of toxic and hazardous waste sites.

We are proud of the progress we have made in our Environmental Restoration Program and I trust this report is responsive to your needs. Thank you for your interest in this matter.

Sincerely,

Robert B. Costello
Robert B. Costello



Attachment
As stated

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ASSISTANT SECRETARY OF DEFENSE

WASHINGTON, D.C. 20301-8000

ACQUISITION AND
LOGISTICS

E

MAR 17 1987

Honorable John C. Stennis
Chairman, Committee on Appropriations
United States Senate
Washington, DC 20510

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JUL 22 1988
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Dear Mr. Chairman:

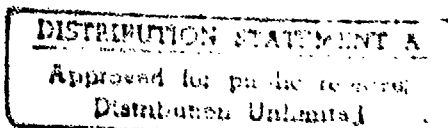
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For FY 1987, \$376 million has been appropriated to continue the program momentum. Our top priority continues to be the cleanup of toxic and hazardous waste sites.

We are proud of the progress we have made in our Environmental Restoration Program and I trust this report is responsive to your needs. Thank you for your interest in this matter.

Sincerely,



Robert B. Costello

Attachment
As stated

DEFENSE ENVIRONMENTAL RESTORATION PROGRAM

ANNUAL REPORT TO CONGRESS

FOR

FISCAL YEAR 1986

MARCH 16, 1987

CONTENTS

| | |
|---|---|
| INTRODUCTION | 1 |
| BACKGROUND | 1 |
| PROGRAM MANAGEMENT | 2 |
| REPORT ON PROGRESS IN IMPLEMENTATION | 2 |
| ENVIRONMENTAL RESTORATION RESEARCH, DEVELOPMENT & DEMONSTRATION . | 5 |
| CONCLUSION | 6 |

TABLES

1. Summary of DoD Installation Restoration Program Sites
2. Summary of DoD Formerly Owned or Used Sites
3. Summary of Hazardous Wastes Remediation, FY 1986 IRP
4. Summary of Hazardous Waste Sites FY 1987 IRP Defense Priorities List

FIGURE

1. Environmental Restoration Program Funding

ATTACHMENTS

- | | |
|--------|---|
| Tab A. | Status of the Department of Defense Installation Restoration Program for Fiscal Year 1986. |
| Tab B. | Fiscal Year 1986 Annual Report of the Defense Environmental Restoration Program. |
| Tab C. | Installation Restoration Program Defense Priorities List for Fiscal Year 1987. |
| Tab D. | Status Report of DoD sites proposed for the National Priority List, March 1987. |
| Tab E. | Report of the DoD/EPA/DOE Working Group to Explore Hazardous Waste Technology Cooperative Efforts, December 1986. |

INTRODUCTION

The Superfund Amendment and Reauthorization Act of 1986, PL 99-499, (SARA), provides DoD the opportunity to report to the Congress on the significant progress made in the Defense Environmental Restoration Program in FY 1986.

This report responds to the specific information requested by Section 211 of the SARA (codified at 10 USC 2706) and provides additional information on other program initiatives.

BACKGROUND

The Department of Defense, like private industry, engages in many industrial and manufacturing operations and, in the course of doing so uses large amounts of industrial chemicals. Although, in the past, waste from these operations was disposed of by accepted practices, we have found that past practices may have resulted in inadvertent environmental contamination and risks to people and the environment. In response to that knowledge, programs were developed in the late 1970s by the military services to identify and assess the problems on active military installations.

In FY 1984 the Congress established the Defense Environmental Restoration program in order to provide increased emphasis and visibility for an expanded effort in environmental restoration. The program was expanded to include sites formerly owned or used by the DoD and broadened to include technology development, removal of structures or debris which are unsafe or constitute a hazard and other activities for waste reduction and improvements in site remediation practices.

SARA provides the continuing authority for the Secretary of Defense to carry out the Environmental Restoration Program. This new legislation tightened schedules for National Priorities List (NPL) sites and increased EPA and states involvement in the environmental restoration process.

Executive Order 12580, on Superfund Implementation, delegates certain authorities to the Secretary of Defense for carrying out the environmental program within the overall framework of the SARA and the Comprehensive Environmental Response Compensation and Liability Act (CERCLA). Dialogue is underway with EPA to establish working relationships under the SARA and the Executive Order.

PROGRAM MANAGEMENT

Overall management of the Defense Environmental Restoration Program is centralized in the Office of the Secretary of Defense, to ensure a consistent approach and adequate allocation of resources. The Deputy Assistant Secretary of Defense for Environment (DASD(E)) provides strong centralized policy direction and oversight of the program. Each service executes environmental restoration activities at its own bases, in accordance with that policy, through normal command channels.

REPORT ON PROGRESS IN IMPLEMENTATION

The following four responses address specific sections at 10 USC 2706:

(1) "A statement for each installation under the jurisdiction of the Secretary of the number of individual facilities at which a hazardous substance has been identified".

Essentially all of the Preliminary Assessment/Site Investigation (PA/SI) studies planned for military installations have been completed.

From these studies 3,526 sites were identified as potential hazardous waste sites. DoD completed remedial actions at 99 sites and another 3,168 are undergoing Remedial Investigation/Feasibility Studies (RI/FS) or are in some stage of remediation.

Table 1, extracted from the Environmental Restoration Status Report, Tab A, summarizes the status of sites in that IRP.

The status of DoD efforts to cleanup properties formerly owned or used in the DoD is summarized in Table 2.

The US Army Corps of Engineers is the DoD Executive Agent for implementation of the Environmental Restoration Program at formerly owned or used sites by the Department.

Most of the effort to date has been in the inventory and PA/SI phase of the program. At present there are approximately 7,000 identified potential environmental restoration sites on properties formerly owned or used by the Department which require investigation as to the degree of DoD responsibility, if any.

In FY 1986, DoD completed preliminary assessment/site investigations at 1,163 such sites, and have 491 currently underway. In FY 1987, 500 more are planned.

DoD has completed or has ongoing projects at 125 sites in FY 1986 and expect to begin work on approximately 50 more in FY 1987. Of these, 112 are for removal of unsafe buildings, structures or debris, 11 are for removals of hazardous or toxic substances, and 2 projects are for comprehensive RI/FS. There are Unexploded Ordnance clearance work ongoing at two sites. DoD is also participating with EPA in ongoing RI/FS at 4 sites listed on the National Priorities List (NPL).

(2) "The status of response actions contemplated or undertaken at each such facility".

The information provided above answer this request.

In addition, a summary of the specific installation restoration tasks accomplished in FY 1986 is provided in Tab B. This information is summarized in Table 3.

Installation Restoration Program work scheduled for FY 1987 is presented in the FY 1987 Defense Priorities List attached at Tab C. Table 4, extracted from that document, summarizes the FY 1987 planned workload.

Central to the IRP's effectiveness is the Department's ability to set priorities, select remedies and establish schedules at sites, taking into full consideration the level of contamination and the impact on surrounding communities. Since each site presents a different risk to people and the environment, and since cleanup is costly, the Department has established a priority system to assure its sites are addressed on a "worst-first" basis. This enables DoD to use scarce funds in the most beneficial way.

The Hazard Ranking System (HRS) identifies high-risk sites for further study. DoD utilizes the HRS and other NCP requirements. To allocate constrained resources we must develop a method for setting cleanup priorities and schedules that rationally address the worst sites first, nationally. Such a prioritizing system must be scientifically and legally defensible. DoD is working on the technical aspects of priority ranking, including field tests of promising systems. DoD is also working with the EPA and will include the states and public in review and evaluation of the specific prioritizing methodology. The present system is an interim

measure which has been used in FY 1987 and comprises three priority tiers:

A - NPL sites or imminent or substantial danger to people and the environment.

B - not as high a potential risk, or a Hazard Assessment and Ranking Method (HARM) score of 55 or above (HARM was developed and used by the Air Force), or equivalent.

C - All others.

(3) "The specific cost estimates and budgetary proposals involving response actions contemplated or undertaken at each such facilities".

In FY 1984 the Congress consolidated and expanded DoD programs for management and cleanup of hazardous waste as a separate appropriation under the Defense Appropriations Act. This allowed DoD to accelerate work and add the research and formerly owned-or-used sites components to the program. Subsequently a centralized transfer account entitled the Defense Environmental Restoration Account (DERA) was established, and the Department was given the authority to transfer funds from this account to the various Defense appropriations to finance environmental restoration efforts. Amounts appropriated to the transfer account remain available until transferred - i.e., they are "no-year" funds. This allows the necessary flexibility to adjust cleanup contracts to meet regulatory review and approval schedules and also to be responsive to emergent requirements.

Obligation rates under the DERA have been excellent. DoD has already responded to the Congressional request for obligation rate data in FY 1986 and are pleased to report essentially 100% obligation of available DERA funds in FY 1986. We did, in fact, carry over \$1.3 million of the \$360.5 million provided in FY 1986 due to last minute contractual cost changes.

The total funding of the DERA from FY 1984 through FY 1989 is shown in Figure 1. The data represented for FY 1984 through FY 1986 represent actual amounts, after Gramm-Rudman-Hollings reduction of \$18 million in FY 1986 and a net reduction of \$10 million in FY 1987. The FY 1987 data represent our current program which includes the \$1.3 million carry-over from FY 1986. The FY 1988 and FY 1989 data are the amounts in the President's budget.

Since FY 1984 DoD has completed most of the PA/SI work, has accomplished a number of immediate response removal actions, and moved progressively into the RI/FS and beyond phases of the program. RI/FS are technically complex studies and must be done with extensive coordination with all affected technical and regulatory agencies, national state, and local. Public involvement, including comments on studies are also taken into consideration. As a result, these studies can be costly and take a long time (EPA estimates a minimum of 18 months, but can easily be twice as long for a complex site). Estimates for remedial actions on the order of \$50 million are not uncommon. Consequently, the outyear budget estimates are fraught with uncertainties, not only with respect to the amounts which will be needed, but also as to when the funds will be needed.

The FY 1988 and FY 1989 budget amounts represent the minimum levels necessary to comply with schedules legislatively mandated by the SARA and for those high priority sites for which enough data is available to make reasonably firm estimates and which, if not done, will lead to violations of legally binding requirements.

(4) "A report on progress on conducting response actions at facilities other than facilities on the National Priorities List".

Information presented above includes both sites proposed by National Priorities List (NPL) and non-NPL sites.

NPL sites are DoD's highest priority. Attached at Tab D is a report on a current status of DoD facilities proposed for the NPL.

ENVIRONMENTAL RESTORATION RESEARCH, DEVELOPMENT & DEMONSTRATION

The Defense Environmental Restoration Program also has provisions for research, development and demonstration with respect to hazardous waste. Included are: means of reducing the quantities of hazardous waste generated by current operations; identifying and evaluating more cost-effective technologies for cleanup of hazardous substances; collecting toxicological data and developing methodology on risk of exposure to hazardous wastes generated by the DoD; testing, evaluation, and field demonstration of any innovative

technologies which may contribute to control, containment, or treatment of contamination resulting from hazardous substances.

In FY 1987 the DERA will support approximately \$11 million of R&D work for cleanup technology, hazardous waste minimization and toxicological information. Most of the effort will be for demonstration projects. The work is coordinated with EPA and Department of Energy. A report detailing the efforts of the working group is attached at Tab E.

CONCLUSION

DoD is proud of the progress made in its environmental programs, and the Environmental Restoration Program in particular.

In FY 1986 the Congress provided \$360 million for Environmental Restoration. These funds were used to expand and accelerate studies and remedial actions at more than 1,900 sites on DoD installations. In addition, DoD has completed or has underway investigations at more than 1,600 formerly owned or used sites and remedial projects at 125 such sites.

For FY 1987 the Congress has appropriated \$376 million to continue the momentum. The top priority continues to be the cleanup of toxic and hazardous waste sites.

DoD is committed to carrying out its program consistent with the intent of Congress and in full cooperation with the EPA and state agencies, with full public participation, and in full compliance with environmental laws and regulations.

TABLE 1
SUMMARY OF
DoD INSTALLATION RESTORATION
PROGRAM SITES
AS OF SEPTEMBER 30, 1986

| <u>Service/Agency</u> | <u>Type of Study or Action</u> | | | | | |
|--------------------------|--------------------------------|------------|----------------------------|-----------|--------------|-----------|
| | <u>PA/SI</u> <u>R2</u> | <u>T</u> | <u>RI/FS</u> <u>LTM</u> | <u>R4</u> | <u>RD/RA</u> | |
| | | | | | <u>T</u> | <u>C</u> |
| Air Force | 1862 | 1642 | 42 | 216 | 130 | 43 |
| Army | 839 | 800 | 192 | 149 | 251 | 43 |
| Defense Logistics Agency | 54 | 53 | 0 | 10 | 11 | 3 |
| Navy | <u>771</u> | <u>693</u> | <u>0</u> | <u>87</u> | <u>15</u> | <u>10</u> |
| GRAND TOTAL | 3526 | 3188 | 234 | 462 | 407 | 99 |

EXPLANATORY NOTES

- R2- Number of sites evaluated in PA/SI step which exhibit characteristics indicating the potential for contamination and were therefore recommended for remedial investigations and feasibility studies.
- T- Total sites that have undergone an RI/FS or RD/RA.
- LTM- Number of sites evaluated in RI/FS step and found to contain contaminants but not presenting a hazard to people or the environment. These sites have been recommended for long-term monitoring or no action.
- R4- Number of sites evaluated in RI/FS step and considered to present a hazard significant enough to warrant response action in accordance with the Comprehensive Environmental Response, Compensation and Liability Act, as amended. These sites have been recommended for cleanup actions.
- C- Total sites which have been completed.

TABLE 2
SUMMARY OF
DoD FORMERLY OWNED OR USED SITES
AS OF SEPTEMBER 30, 1986

| | <u>FY86 ACTUAL</u> | <u>FY87 ESTIMATE</u> | <u>AVG COST</u> |
|-------------------------------|--------------------|----------------------|-----------------|
| Sites Identified (Cum) | 6,806 | 7,500 | |
| PA/SI Completed (Cum) | 1,163 | 1,700 | \$25 K |
| Ongoing | 491 | 500 | |
| Projects Completed or Ongoing | | | |
| BD/DR | 112 | 170 | \$110 K |
| Haz/Tox Removal | 11 | 20 | \$170 K |
| RI/FS (DoD) * | 2 | 4 | \$2.5 M |
| RI/FS (Other Agency) ** | 4 | 9 | |
| RD/RA | 0 | 2 | |
| UXO *** | 2 | 2 | |

* - Tierra Santa, CA; Hastings, NB.

** - EPA lead, NPL sites - WV Ord Wks Morgantown, WV; Eau Claire, WI;
Phoenix Litchfield, AZ; Marathon Battery, NY.

*** - Tierra Santa, CA; Burma Rd., Kodiak, AK.

TABLE 3
Summary of Hazardous Waste
Remediation, FY 1986 IRP

| | # of Installations | # of Sites | # of Projects* | | | TOTAL |
|--------------|-----------------------|---------------|----------------|----------|------------|-----------|
| | | | PA/SI | RI/FS | RD/RA | |
| Army | 45 | 146 | — | 119 | 50 | 169 |
| Navy | 55 | 465 | — | 465 | — | 465 |
| Air Force | <u>125</u> | 1299 | — | 1218 | <u>242</u> | 1460 |
| DLA | <u>9</u> | <u>10</u> | <u>—</u> | <u>9</u> | <u>1</u> | <u>10</u> |
| <u>TOTAL</u> | 234 | 1920 | -0- | 1811 | 293 | 2104 |

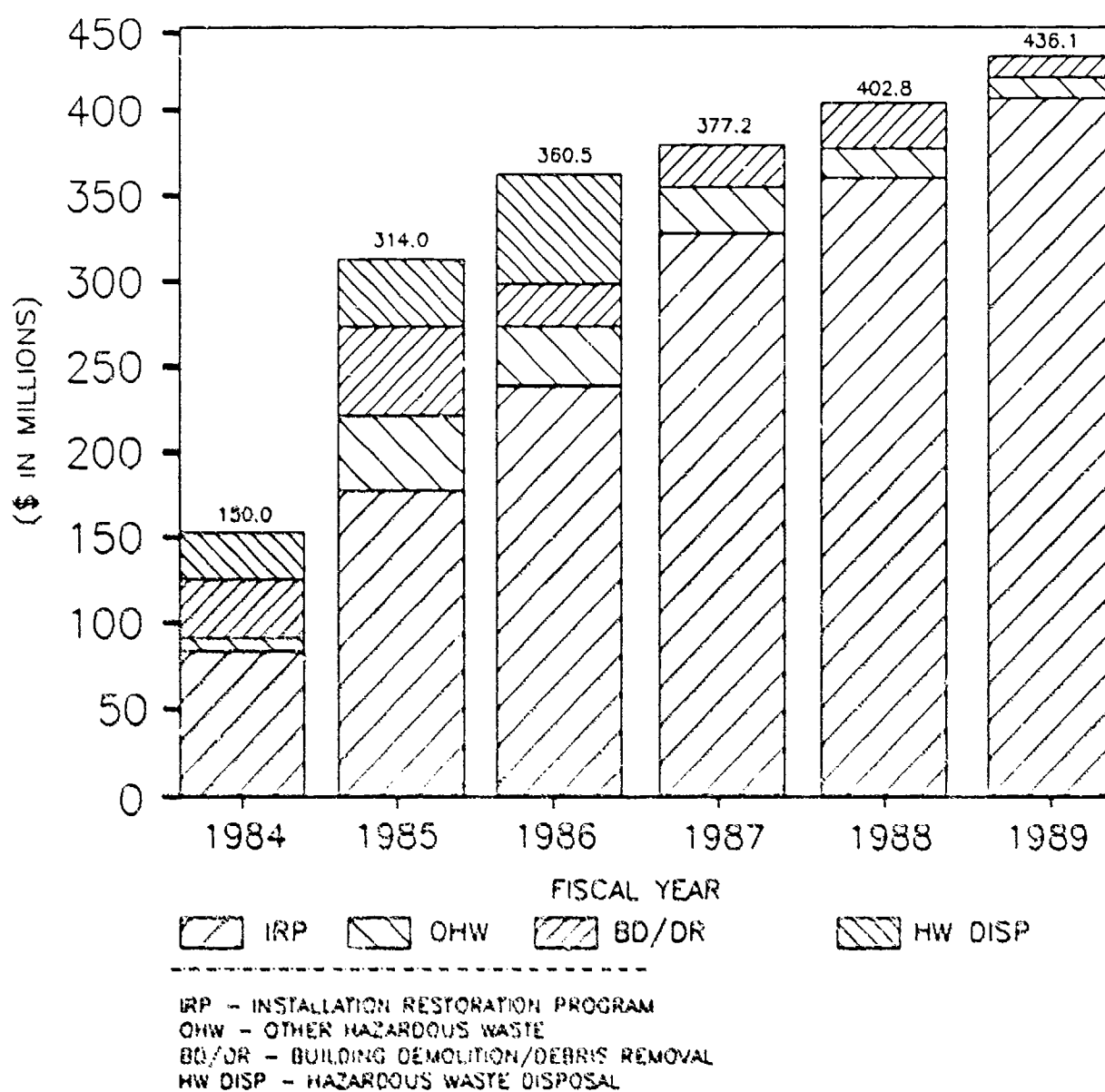
*Note: Project counts do not equal site counts as some sites have multiple projects funded in FY 1986.

TABLE 4
Summary of Hazardous Waste Sites
FY 1987 IRP
Defense Priorities List

| Service/Agency | Priorities | | | <u>Total</u> |
|--------------------------|------------|----------|----------|--------------|
| | <u>A</u> | <u>B</u> | <u>C</u> | |
| ARMY | 96 | 33 | 146 | 275 |
| Navy | 126 | 438 | 165 | 729 |
| AIR FORCE | 138 | 465 | 313 | 916 |
| DEFENSE LOGISTICS AGENCY | 12 | 0 | 1 | 13 |
| | <hr/> | <hr/> | <hr/> | <hr/> |
| TOTAL SITES | 372 | 936 | 625 | 1933 |

FIGURE 1

ENVIRONMENTAL RESTORATION PROGRAM FUNDING



TAB A

Status of the Department of Defense Installation
Restoration Program for Fiscal Year 1986

STATUS OF THE
DEPARTMENT OF DEFENSE
**INSTALLATION
RESTORATION
PROGRAM**
FOR
FISCAL YEAR 1986



OFFICE OF THE DEPUTY ASSISTANT SECRETARY OF DEFENSE
(ENVIRONMENT)

WASHINGTON, D.C. 20301-8000

JANUARY 1987

TABLE OF CONTENTS

| Title | Page |
|--|------|
| Status Report, DoD Installation Restoration Program | i |
| Table I, Cumulative Summary of DoD IRP Sites ... | iii |
| Appendix A, Table II, DoD IRP Status Report Master Status Listing | 1 |
| Appendix B, Table III, Status Report Summary Table | 29 |
| Appendix C, List of Acronyms and Abbreviations..... | 33 |

STATUS REPORT

DOD INSTALLATION RESTORATION PROGRAM

INTRODUCTION

The Installation Restoration Program (IRP) is the Department of Defense program for cleanup of contamination at toxic and hazardous waste sites.

The IRP is centrally managed at the Office of the Secretary of Defense and is carried out by the military services and defense agencies. The Deputy Assistant Secretary of Defense for Environment provides overall policy direction and oversight for the program. Each service accomplishes installation restoration activities at its own bases through command channels. This status report provides "a snap shot" of the status of the IRP at DoD installations as of September 30, 1986.

BACKGROUND

The Department of Defense, like private industry, conducts a number of industrial processing and manufacturing operations which utilize large amounts of industrial chemicals. Although in the past wastes from these operations were disposed of by the commonly accepted practices of the times, we have found that such practices may have resulted in environmental contamination and risks to public health and the environment. In response to that knowledge, programs were developed in the late 1970's by active military installations.

With the passage of the Defense Appropriations Act of 1984, the DoD's program was expanded and broadened to include removal of structures or debris which are unsafe or constitute a health hazard. Also, the overall management of the program was centralized in the Environmental Policy Office of the Secretary of Defense to ensure a consistent approach and adequate allocation of resources.

The Superfund Amendments and Reauthorization Act of 1986 (SARA) provides the continuing authority for the Secretary of Defense to carry out the Environmental Restoration Program. Executive Order 12580 on Superfund Implementation, signed by President Reagan on January 23, 1987, delegates certain authorities to the Secretary of Defense for carrying out its environmental restoration program within the overall framework of the SARA and Comprehensive Environmental Response Compensation and Liability Act (CERCLA).

The Department of Defense is subject to all environmental laws and regulations. Although we are not eligible for Superfund funding, our program is funded in the annual Defense Appropriations Act and we are required to meet all the requirements of CERCLA and SARA. We consult with the EPA and state agencies every step of the way from site identification through final action to make sure that our responses are both technically sound and in the public interest.

PROGRAM

Like the EPA's Superfund program, the DoD IRP follows the National Contingency Plan. Removal Actions for imminent threats are, of course, carried out immediately upon discovery. The cleanup of sites proceeds in the following major steps:

- Preliminary Assessment/Site Investigation (PA/SI) - the PA includes collection and review of available information (installation records, employee interviews, technical data, reports, etc). The SI comprises a physical inspection of the identified site, and in some cases, limited sampling information. This step was formerly called Phase I, Installation Assessment, under the DoD IRP

- Remedial Investigation/Feasibility Study (RI/FS) - These steps may be conducted concurrently. The RI consists of sampling and field studies whose goals are to determine the nature and extent of contamination at a site and the direction and rate of migration, if applicable. The FS is used to develop and analyze various remedial alternatives and recommend appropriate actions. The RI part of this step was formerly called Phase II - Confirmation Study under the DoD IRP. These phase II studies also included the FS step, except by the Air Force who included the FS in their Phase IV work.
- Remedial Design/Remedial Action (RD/RA) - This includes the engineering design, construction and operation of the cleanup alternative selected on the basis of providing the most protection to human health and the environment as well as cleanup, containment, or other structures to prevent migration of contaminants; decontamination/treatment processes to remove or detoxify contaminants; and long-term monitoring systems. This step was formerly called Phase IV, Remedial Action, under the DoD IRP.

Central to the IRP is the DoD's ability to set priorities, select remedies and establish schedules at sites that take into full consideration the level of contamination and the impact on surrounding communities. Since each site presents a different risk to health and the environment and cleanup is costly, DoD is developing a comprehensive priority ranking system in concert with the EPA, other federal agencies, states and the public to assure that scarce funds are used in the most beneficial way and that sites are properly addressed on a "worst-first" basis.

PROGRESS

There has been an increased emphasis and visibility on the IRP since 1984. Sites which have been addressed in the PA/SI (Phase I) and RI/FS (Phase II) are now leading to the identification of RD/RA work in 1987 and beyond, and it is clear that the bulk of the work still lies ahead. In FY 1987, DoD has allocated \$327 million to the services to carry out installation restoration at their bases. We estimate the total cost of DoD installation restoration work at \$5-10 billion over the next 10 years for 400-800 sites. The uncertainty of this figure is because we still have many studies to complete.

Progress in the IRP can be summarized as follows:

- Essentially all of the PA/SI (Phase I) studies planned for military installations have been completed. The DoD has approximately 874 installations in the 50 states. Of these, 529 have been included in the program and have completed preliminary studies. We are re-looking at several that were completed prior to the passage of SARA to see if they merit re-evaluation on the basis of today's more stringent requirements.
- From these studies more than 3,500 sites were identified as potential hazardous waste sites. Of these, 3,188 have underway or completed RI/FS (Phase II) or RD/RA (Phase IV). 462 sites have been evaluated in the RI/FS (Phase II) step and considered to present a hazard significant enough to warrant a remedial action in accordance with the National Contingency Plan and have been recommended for RD/RA. Cleanup work has been completed at 99 sites.

Table I summarizes progress at active and inactive installations as of September 30, 1986. Following the summary is a complete listing of the program status, installation-by-installation. In general, the installations listed are the same as those which appeared in last year's report. However, the list has been updated and changed to be consistent with NCP terminology.

TABLE I
CUMULATIVE SUMMARY OF
DEPARTMENT OF DEFENSE INSTALLATION RESTORATION PROGRAM SITES
AS OF SEPTEMBER 30, 1986

| Service/Agency | Type of Study or Action ¹ | | | | | |
|--------------------------|--------------------------------------|------|--------------|-----|------------|----|
| | PA/SI R2 | T | RI/FS LTM | R4 | RD/RA T | C |
| Air Force | 1862 | 1642 | 42 | 216 | 130 | 43 |
| Army | 839 | 800 | 192 | 149 | 251 | 43 |
| Defense Logistics Agency | 54 | 53 | 0 | 10 | 11 | 3 |
| Navy | 771 | 693 | 0 | 87 | 15 | 10 |
| GRAND TOTAL | 3526 | 3188 | 234 | 462 | 407 | 99 |

EXPLANATORY NOTES

- R2-** Number of Sites evaluated in PA/SI step which exhibit characteristics indicating the potential for contamination and were therefore recommended for remedial investigations and feasibility studies.
- T-** Total sites that have undergone an RI/FS or RD/RA.
- LTM-** Number of sites evaluated in RI/FS step and found to contain contaminants but not presenting a hazard to people or the environment. These sites have been recommended for long-term monitoring or no action.
- R4-** Number of sites evaluated in RI/FS step and considered to present a hazard significant enough to warrant response action in accordance with the Comprehensive Environmental Response, Compensation and Liability Act, as amended. These sites have been recommended for cleanup actions.
- C-** Total sites which have been completed.

¹ See Definitions page for further explanation of terms.

APPENDIX A

DEPARTMENT OF DEFENSE
INSTALLATION RESTORATION PROGRAM STATUS REPORT
MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

PA/SI
R2

RI/FS
T LTM R4

RD/RA
T C

ALASKA

AIR FORCE

| | | | | | |
|----------------------|----|----|----|---|---|
| ALASKAN DEWLINE | 22 | | | | |
| ANCHORAGE ANG | | | | | |
| ANIAK | | | | 1 | 1 |
| ANVIL MOUNTAIN | | | | 1 | |
| BARTER ISLAND | 5 | 5 | 5 | | |
| BEAR CREEK | | | | 1 | 1 |
| BETHEL | | | | 1 | |
| BIG MOUNTAIN | | | | 1 | 1 |
| BOSWELL BAY | | | | 1 | |
| CAMPION LRRS | 7 | 7 | 7 | 3 | 3 |
| CANYON CREEK | | | | 1 | |
| CAPE LISBURNE | 6 | | | 1 | |
| CAPE NEWENHAM | 6 | | 6 | | |
| CAPE ROMANZOF LRRS | 11 | | | 1 | |
| CAPE SARICHEF | | | | | |
| CLEAR AFB | 7 | 5 | | | |
| COLD BAY LRRS | 2 | 4 | | 1 | |
| DRIFTWOOD BAY | | | | 1 | 1 |
| DUNCAN CANAL | | | 1 | 1 | |
| EIELSON AFB | 17 | 35 | 10 | 4 | 4 |
| ELMENDORF AFB | 13 | 31 | 10 | | |
| FLAXMAN ISLAND | 1 | 1 | 1 | 1 | |
| FORT YUKON LRRS | 5 | 6 | 1 | 1 | 1 |
| GALENA AIRPORT | 6 | 6 | 1 | 1 | |
| GOLD KING CREEK | | | | 1 | |
| GRANITE MOUNTAIN | | | 1 | 1 | 1 |
| HOGNAH | | | | 1 | |
| INDIAN MOUNTAIN LRRS | 11 | 11 | 6 | | |
| KALAKARET CREEK | | | | 1 | |
| KING SALMON AFS | 17 | | | | |
| KOTZEBUE | 4 | | | 1 | |
| LONELY | 3 | 3 | 3 | 1 | |
| MURPHY DOME LRRS | 7 | 7 | | 1 | |
| NIKOLSKI | | | | 1 | |
| NORTH RIVER | | | | 1 | 1 |
| OCEAN CAPE | | | 1 | 1 | |
| OLIKTOK | 1 | 1 | 1 | 1 | |
| PEDRO DOME | | | | | |
| POINT BARROW | | | | | |
| POINT LAY | 3 | 3 | 3 | 3 | 3 |
| PORT HEIDEN | | | 1 | 1 | 1 |
| PORT MOLLER | | | | 1 | |
| SHEMYA AFB | 9 | | 1 | 1 | 1 |

DEPARTMENT OF DEFENSE
INSTALLATION RESTORATION PROGRAM STATUS REPORT
MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

| | PA/SI R2 | RI/FS LTM R4 | RD/RA T C |
|-------------------------------|-------------|-----------------|-------------------|
| SMUGGLERS COVE | | | 1 |
| SOLDOTNA | | | |
| SPARREVOHN LRRS | 8 | 8 | 1 |
| TATALINA LRRS | 11 | | 2 |
| TIN CITY LRRS | 8 | | 1 |
| UNALAKOLEET | | | |
| WAINWRIGHT | | | |
| YAKATAGE | | | 1 |
| YAKUTAT | | | 1 |
| ARMY | | | |
| CAMP CARROLL | | | |
| FORT GREELY | | | |
| FORT RICHARDSON | | | |
| FORT WAINWRIGHT | | 3 | |
| GERSTLE RIVER TEST SITE | | | |
| NAVY | | | |
| NARL POINT BARROW | | | |
| NAS ADAK | | | |
| ALASKA STATE TOTALS | 168 | 158 | 0 62 46 23 |
| ALABAMA | | | |
| AIR FORCE | | | |
| BIRMINGHAM ANG | 10 | 1 | |
| DONNELLY ANG | 10 | 5 | |
| GUNTER | | | |
| MAXWELL AFB | 10 | 10 | |
| ARMY | | | |
| ALABAMA AAP | 54 | 48 | 26 26 2 |
| ANNISTON AD | 1 | 1 | 2 2 2 |
| ARMY PHOSPHATE DEV WORKS | | | |
| FORT MCCLELLAN | 3 | 9 | 9 |
| FORT RUCKER | | | |
| MISSILE CMD, REDSTONE ARSENAL | 46 | 46 | 42 42 42 4 |
| ALABAMA STATE TOTALS | 134 | 120 | 42 70 79 8 |

DEPARTMENT OF DEFENSE
INSTALLATION RESTORATION PROGRAM STATUS REPORT
MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

ARKANSAS

PA/SI
R2

RI/FS
T LTM R4

RD/RA
T C

AIR FORCE

| | | | | | | |
|----------------|-----|----|--|--|--|--|
| BLYTHEVILLE | 9 | | | | | |
| FORT SMITH ANG | | | | | | |
| LITTLE ROCK | .24 | 15 | | | | |

ARMY

| | | | | | | |
|--------------------|----|----|---|---|----|---|
| FORT CHAFFEE | | | | | | |
| PINE BLUFF ARSENAL | 37 | 27 | 7 | 5 | 10 | 3 |

| | | | | | | |
|------------------------------|-----------|-----------|----------|----------|-----------|----------|
| ARKANSAS STATE TOTALS | 70 | 42 | 7 | 5 | 10 | 3 |
|------------------------------|-----------|-----------|----------|----------|-----------|----------|

ARIZONA

AIR FORCE

| | | | | | | |
|-------------------|----|----|---|---|---|--|
| AFP NO.44 | 11 | 7 | 3 | 2 | 2 | |
| DAVIS MONTHAN AFB | 10 | 12 | | | | |
| LUKE AFB | 1 | 5 | 3 | 2 | 2 | |
| PHOENIX ANG | | | | | | |
| TUSCON ANG | | | | | | |
| WILLIAMS AFB | 6 | 9 | | 1 | 1 | |

ARMY

| | | | | | | |
|-----------------------------|---|----|---|--|--|--|
| FORT HUACHUCA | | | | | | |
| NAVAJO ADA | 8 | 13 | 6 | | | |
| PAPAGO MILITARY RESERVATION | | | | | | |
| YUMA PROVING GROUND | | | | | | |

NAVY

| | | | | | | |
|-----------|---|---|--|--|--|--|
| MCAS YUMA | 2 | 2 | | | | |
|-----------|---|---|--|--|--|--|

| | | | | | | |
|-----------------------------|-----------|-----------|-----------|----------|----------|----------|
| ARIZONA STATE TOTALS | 38 | 48 | 12 | 5 | 5 | 0 |
|-----------------------------|-----------|-----------|-----------|----------|----------|----------|

CALIFORNIA

AIR FORCE

| | | | | | | |
|----------------------|----|----|----|---|---|---|
| AFP NO.19, SAN DIEGO | | | | | | |
| AFP NO.42, PALMDALE | 15 | 25 | | | | |
| AFP NO.70, FOLSOM | | | | | | |
| BEALE AFB | 6 | 19 | | 2 | 2 | |
| CASTLE AFB | 16 | 21 | | 7 | | |
| EDWARDS AFB | 7 | 24 | 11 | 4 | 4 | 7 |
| FORT MacARTHUR | | | | | | |
| FRESNO ANG | | | | | | |
| GEORGE | 13 | 21 | | 1 | 1 | |

DEPARTMENT OF DEFENSE
INSTALLATION RESTORATION PROGRAM STATUS REPORT
MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

| | PA/SI R2 | RI/FS T LTM R4 | RD/RA T C |
|----------------|-------------|-------------------|--------------|
| LOS ANGELES | 2 | 2 | |
| MARCH | 14 | 33 | |
| MATHER AFB | 9 | 20 | 1 1 1 |
| MCCLELLAN | 30 | 50 | 27 2 2 |
| NORTON AFB | 12 | 16 | 1 1 |
| SUNNYVALE | | | |
| TRAVIS | 7 | 18 | 1 2 2 |
| VANDENBERG AFB | 17 | 33 | 1 1 |

ARMY

| | | | |
|--|----|----|-----|
| CAMP ROBERTS | | | |
| EAST FORT BAKER | | | |
| FORT HUNTER LIGGETT | | | |
| FORT IRWIN | | | |
| FORT MacARTHUR | | | |
| FORT ORD | | | |
| HAMILTON ARMY AIR FIELD | 4 | 4 | |
| OAKLAND ARMY BASE | | | |
| PARKS RESERVE FORCES TRAINING AREA | | | |
| PRESIDIO OF MONTEREY | | | |
| PRESIDIO OF SAN FRANCISCO | | | |
| RIO VISTA RESERVE TRAINING ACTIVITY | | | |
| RIVERBANK AAP | 10 | 10 | |
| SACRAMENTO AD | 13 | 13 | 3 3 |
| SHARPE ARMY DEPOT | 11 | 11 | |
| SIERRA AD | | | |

DEFENSE LOGISTICS AGENCY

| | | | |
|-----------------|---|---|-----|
| DDTC TRACY | 2 | 2 | |
| DFSP ESTERO BAY | | | |
| DFSP NORWALK | 1 | 1 | 1 |
| DFSP OZOL | 1 | 1 | 1 1 |
| DFSP SAN PEDRO | 8 | 8 | |

NAVY

| | | | |
|--------------------|----|----|-------|
| CBC PORT HUENEME | | 8 | |
| MCAGCC 29 PALMS | | | |
| MCAS EL. TORO | | | |
| MCAS TUSTIN | 7 | 7 | 1 1 |
| MCB CAMP PENDLETON | 5 | | |
| MCLB BARSTOW | 4 | 4 | |
| NAB CORONADO | | 2 | |
| NAS ALAMEDA | 7 | 7 | |
| NAS LEMOORE | 19 | 11 | |
| NAS MIRAMAR | 5 | 5 | 1 1 1 |
| NAS MOFFETT FIELD | 18 | 10 | |
| NAS NORTH ISLAND | 4 | 4 | |

DEPARTMENT OF DEFENSE
INSTALLATION RESTORATION PROGRAM STATUS REPORT
MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

| | PA/SI R2 | RI/FS T LTM R4 | RD/RA T C | | | |
|---------------------------------|-------------|-------------------|--------------|-----------|-----------|-----------|
| NIROP SUNNYVALE | | | | | | |
| NOSC SAN DIEGO | | | | | | |
| NS SAN DIEGO | | | | | | |
| NS TREASURE ISLAND | | | | | | |
| NSB SAN DIEGO | | | | | | |
| NSY HUNTER'S POINT | 6 | 7 | | | | |
| NSY LONG BEACH | | | | | 1 | 1 |
| NSY MARE ISLAND | 6 | 7 | | | | |
| NTC SAN DIEGO | | | | | | |
| NWC CHINA LAKE | 14 | 16 | | 1 | 1 | |
| NWS CONCORD | 13 | 13 | | | | |
| NWS SEAL BEACH | 9 | 9 | | | | |
| PMTC POINT MUGU | 10 | 10 | | | | |
| CALIFORNIA STATE TOTALS | 325 | 452 | 13 | 53 | 23 | 11 |
| COLORADO | | | | | | |
| AIR FORCE | | | | | | |
| AFP PJKS, LITTLETON | 6 | 16 | | | | |
| BUCKLEY ANG | 6 | 7 | | 1 | 1 | |
| LOWRY AFB | 3 | 14 | | 1 | 1 | |
| PETERSON | 5 | | | | | |
| USAF ACADEMY | 9 | | | | | |
| ARMY | | | | | | |
| FITZSIMMONS ARMY MED CENTER | | | | | | |
| FORT CARSON | | | | | | |
| PUEBLO DEPOT ACTIVITY | | | | | | |
| ROCKY MOUNTAIN ARSENAL | 224 | 71 | | 5 | 8 | 3 |
| COLORADO STATE TOTALS | 253 | 108 | 0 | 7 | 10 | 3 |
| CONNECTICUT | | | | | | |
| AIR FORCE | | | | | | |
| BRADLEY ANG | | | | | | |
| ARMY | | | | | | |
| STRATFORD ARMY ENGINE PLANT | | | | | | |
| NAVY | | | | | | |
| NSB NEW LONDON | 4 | 4 | | | | |
| CONNECTICUT STATE TOTALS | 4 | 4 | 0 | 0 | 0 | 0 |

DEPARTMENT OF DEFENSE
INSTALLATION RESTORATION PROGRAM STATUS REPORT
MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

PA/SI
R2

RI/FS
T LTM R4

RD/RA
T C

DISTRICT OF COLUMBIA

AIR FORCE

BOLLING AFB 3

ARMY

FORT MCNAIR
WALTER REED ARMY MEDICAL CTR

NAVY

NRL CHESAPEAKE BEACH

| | | | | | | |
|-----------------------------------|---|---|---|---|---|---|
| DISTRICT OF COLUMBIA STATE TOTALS | 3 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|

DELAWARE

AIR FORCE

| | | | | | | |
|------------------------|---|----|---|---|---|--|
| DOVER AFB | 7 | 12 | 2 | 3 | 3 | |
| GREATER WILMINGTON ANG | | 1 | | | | |

ARMY

PEA PATCH ISLAND

| | | | | | | |
|-----------------------|---|----|---|---|---|---|
| DELAWARE STATE TOTALS | 7 | 13 | 2 | 3 | 3 | 0 |
|-----------------------|---|----|---|---|---|---|

FLORIDA

AIR FORCE

| | | | | | | |
|------------------|----|----|---|---|---|--|
| CAPE CANAVERAL | 17 | 11 | | | | |
| EGLIN AFB | 52 | 40 | 6 | | | |
| HOMESTEAD AFB | 18 | 10 | | | | |
| JACKSONVILLE ANG | 19 | 16 | 1 | 1 | 1 | |
| MACDILL AFB | 19 | 18 | | 1 | 1 | |
| PATRICK AFS | 24 | 16 | | | | |
| TYNDALL AFB | 14 | 12 | | | | |

ARMY

ARRCOM ORLANDO FACILITY

DEFENSE LOGISTICS AGENCY

| | | | | | | |
|-----------------|---|---|--|--|--|--|
| DFSP LYNN HAVEN | 2 | 2 | | | | |
| DFSP TAMPA | | | | | | |

DEPARTMENT OF DEFENSE
INSTALLATION RESTORATION PROGRAM STATUS REPORT
MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

PA/SI
R2

RI/FS
T LTM R4

RD/RA
T C

NAVY

| | | | | | |
|-------------------|----|----|---|---|---|
| NAS CECIL FIELD | 10 | 9 | | | |
| NAS JACKSONVILLE | 21 | 21 | 7 | 1 | 1 |
| NAS KEY WEST | 16 | 15 | | | |
| NAS PENSACOLA | 27 | 27 | | | |
| NAS WHITING FIELD | 15 | 15 | | | |
| NCSC PANAMA CITY | 7 | 7 | | | |
| NS MAYPORT | 10 | 8 | | | |
| NTC ORLANDO | 5 | 5 | | | |

| | | | | | | |
|----------------------|-----|-----|---|---|---|---|
| FLORIDA STATE TOTALS | 276 | 232 | 7 | 9 | 3 | 1 |
|----------------------|-----|-----|---|---|---|---|

GEORGIA

AIR FORCE

| | | | | | |
|-------------------|----|----|---|--|--|
| AFP NO.6 MARIETTA | 20 | 12 | | | |
| DOBBINS | 13 | 6 | | | |
| MOODY AFB | 14 | 6 | 1 | | |
| ROBINS AFB | 30 | 24 | 2 | | |
| SAVANNAH ANG | | | | | |

ARMY

| | | | | | |
|----------------------|----|----|--|--|----|
| FORT BENNING | | | | | |
| FORT GILLEM | 22 | 22 | | | 22 |
| FORT GORDON | | | | | |
| FORT McPHERSON | | | | | |
| FORT STEWART | | | | | |
| HUNTER ARMY AIRFIELD | | | | | |

NAVY

| | | | | | |
|---------------|---|---|--|--|--|
| MCLB ALBANY | 6 | 8 | | | |
| NSB KINGS BAY | | | | | |

| | | | | | | |
|----------------------|-----|----|---|---|----|---|
| GEORGIA STATE TOTALS | 105 | 78 | 0 | 3 | 22 | 0 |
|----------------------|-----|----|---|---|----|---|

GUAM

AIR FORCE

| | | | | | |
|--------------|--|----|--|--|--|
| ANDERSEN AFB | | 11 | | | |
|--------------|--|----|--|--|--|

NAVY

| | | | | | |
|-----------|---|---|--|--|--|
| NAS AGANA | 5 | 4 | | | |
| PWC GUAM | 2 | 1 | | | |

| | | | | | | |
|-------------------|---|----|---|---|---|---|
| GUAM STATE TOTALS | 7 | 16 | 0 | 0 | 0 | 0 |
|-------------------|---|----|---|---|---|---|

DEPARTMENT OF DEFENSE
INSTALLATION RESTORATION PROGRAM STATUS REPORT
MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

PA/SI
R2

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T LTM R4

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T C

HAWAII

AIR FORCE

| | | | | |
|------------------|----|----|---|---|
| BELLOWS | 1 | | | |
| HICKAM AFB | 6 | 17 | 4 | 4 |
| HICKAM POL | 11 | 26 | | |
| KAENA PT STATION | | | | |
| KOKEE | | | | |
| PUNAMANO | | | | |
| WHEELER AFB | 7 | 7 | | |

ARMY

FORT KAMEHAMEHA
FORT SHAFTER
KAPALAMA MIL RES
KILAUEA MIL RES
MAKUA MIL RES
POHAKULA TRAINING AREA
SCHOFIELD BARRACKS
TRIPLER ARMY MEDICAL CENTER

NAVY

| | | |
|-------------------|---|---|
| MCAS KANEOHE | 1 | 1 |
| NAS BARBERS POINT | 3 | 3 |
| NAVCAMS EASTPAC | | |
| NAVMAG LUALUALEI | | |
| NSY PEARL HARBOR | 3 | 3 |

| | | | | | | |
|---------------------|----|----|---|---|---|---|
| HAWAII STATE TOTALS | 32 | 57 | 0 | 4 | 4 | 0 |
|---------------------|----|----|---|---|---|---|

IOWA

AIR FORCE

| | | |
|----------------|---|---|
| DES MOINES ANG | 2 | 6 |
| SIOUX CITY ANG | | |

ARMY

| | | | |
|----------|---|---|---|
| IOWA AAP | 9 | 9 | 2 |
|----------|---|---|---|

| | | | | | | |
|-------------------|----|----|---|---|---|---|
| IOWA STATE TOTALS | 11 | 15 | 0 | 2 | 0 | 0 |
|-------------------|----|----|---|---|---|---|

DEPARTMENT OF DEFENSE
INSTALLATION RESTORATION PROGRAM STATUS REPORT
MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

PA/SI
R2

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LTM R4

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IDAHO

AIR FORCE

| | | | | | | |
|---------------------------|-----------|----------|----------|----------|----------|----------|
| BOISE | 6 | | | | | |
| GOWEN FIELD | | 4 | | | | |
| MOUNTAIN HOME AFB | 6 | 5 | | 4 | 4 | |
| IDAHO STATE TOTALS | 12 | 9 | 0 | 4 | 4 | 0 |

ILLINOIS

AIR FORCE

| | | | | | | |
|--------------------|----|----|--|--|---|--|
| CAPITAL ANG | | | | | | |
| CHANUTE AFB | 26 | 15 | | | 1 | |
| GREATER PEORIA N G | | | | | | |
| O'HARE AIR RESERVE | 9 | 9 | | | | |
| SCOTT | 12 | | | | | |

ARMY

| | | | | | | |
|--------------------------|----|----|----|--|----|--|
| FORT SHERIDAN | | | | | | |
| JOLIET AAP | 17 | 17 | | | | |
| ROCK ISLAND ARSENAL | | | | | | |
| SAVANNA ADA | 31 | 32 | 10 | | 10 | |
| ST. LOUIS SUPPORT CENTER | 8 | 8 | 1 | | | |

NAVY

NTC GREAT LAKES

| | | | | | | |
|------------------------------|------------|-----------|-----------|----------|-----------|----------|
| ILLINOIS STATE TOTALS | 103 | 81 | 11 | 0 | 11 | 0 |
|------------------------------|------------|-----------|-----------|----------|-----------|----------|

INDIANA

AIR FORCE

| | | | | | | |
|--------------|----|---|--|--|--|--|
| FT.WAYNE ANG | 10 | 5 | | | | |
| GRISSOM | 7 | | | | | |
| HULMAN FIELD | 10 | 1 | | | | |

ARMY

| | | | | | | |
|--------------------------------|----|----|---|--|--|--|
| CRANE ARMY AMMUNITION ACTIVITY | | | | | | |
| FORT BENJAMIN HARRISON | | | | | | |
| INDIANA AAP | 11 | 11 | 6 | | | |
| JEFFERSON PROVING | | | | | | |
| GROUND, MADISON | | | | | | |
| NEWPORT AAP | | | | | | |

DEPARTMENT OF DEFENSE
INSTALLATION RESTORATION PROGRAM STATUS REPORT
MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

| PA/SI R2 | RI/FS LTM | R4 | RO/RA T | C |
|-------------|--------------|----|------------|---|
|-------------|--------------|----|------------|---|

NAVY

| | | | | | | |
|----------------------|----|----|---|---|---|---|
| NWSC CRANE | 14 | 14 | | 1 | 1 | |
| INDIANA STATE TOTALS | 52 | 31 | 6 | 1 | 1 | 0 |

KANSAS

AIR FORCE

| | | | | | | |
|---------------------------|----|--|--|--|--|--|
| FORBES FIELD MCCONNELL | 12 | | | | | |
|---------------------------|----|--|--|--|--|--|

ARMY

| | | | | | | |
|---|----|--------|--|--|--|--|
| FORT LEAVENWORTH FORT RILEY KANSAS AAP SUNFLOWER AAP | 12 | 1 6 | | | | |
|---|----|--------|--|--|--|--|

DEFENSE LOGISTICS AGENCY

DIPEF ATCHISON

| | | | | | | |
|---------------------|----|---|---|---|---|---|
| KANSAS STATE TOTALS | 24 | 7 | 0 | 0 | 0 | 0 |
|---------------------|----|---|---|---|---|---|

KENTUCKY

AIR FORCE

STANDIFORD FIELD ANG

ARMY

| | | | | | | |
|---|--|-------------|---|--|--|--|
| BLUE GRASS ADA FORT CAMPBELL FORT KNOX LEXINGTON ADA | | 7 1 4 | 2 | | | |
|---|--|-------------|---|--|--|--|

NAVY

NOS LOUISVILLE

| | | | | | | |
|-----------------------|---|----|---|---|---|---|
| KENTUCKY STATE TOTALS | 0 | 12 | 4 | 0 | 0 | 0 |
|-----------------------|---|----|---|---|---|---|

LOUISIANA

AIR FORCE

| | | | | | | |
|--------------------------|----------|--|---|--|---|--|
| BARKSDALE ENGLAND AFB | 21 26 | | 7 | | 7 | |
|--------------------------|----------|--|---|--|---|--|

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

| PA/SI R2 | RI/FS LTM | R4 | RD/RA 11 | C |
|-------------|--------------|----|-------------|---|
|-------------|--------------|----|-------------|---|

ARMY

| | | | | | | |
|---------------|----|----|---|---|---|---|
| FORT POLK | | | | | | |
| LOUISIANA AAP | 15 | 15 | 8 | 2 | 2 | 2 |
| PEARSON RIDGE | | | | | | |

NAVY

| | | | | | | |
|-----------------|----|----|--|--|--|--|
| NSA NEW ORLEANS | 12 | 12 | | | | |
|-----------------|----|----|--|--|--|--|

| | | | | | | |
|------------------------|----|----|---|---|---|---|
| LOUISIANA STATE TOTALS | 74 | 34 | 8 | 9 | 2 | 2 |
|------------------------|----|----|---|---|---|---|

MASSACHUSETTS

AIR FORCE

| | | | | | | |
|--------------------|----|----|--|----|----|---|
| AFP NO.28, EVERETT | 2 | | | | | |
| AFP NO.29, LYNN | 2 | | | | | |
| BARNES ANG | | | | | | |
| HANSCOM AFB | 19 | 13 | | 1 | 5 | |
| OTIS ANG | 16 | 43 | | 23 | 13 | 9 |
| WESTOVER | 11 | 10 | | | | |

ARMY

| | | | | | | |
|--------------------|---|---|--|--|---|--|
| AMMRC | | | | | | |
| FORT DEVENS | 7 | 7 | | | 7 | |
| NATICK R&D COMMAND | | | | | | |

NAVY

| | | | | | | |
|---------------|--|--|--|--|--|--|
| NIROP BEDFORD | | | | | | |
|---------------|--|--|--|--|--|--|

| | | | | | | |
|----------------------------|----|----|---|----|----|---|
| MASSACHUSETTS STATE TOTALS | 57 | 73 | 0 | 24 | 25 | 9 |
|----------------------------|----|----|---|----|----|---|

MARYLAND

AIR FORCE

| | | | | | | |
|--------------------|----|----|--|--|--|--|
| ANDREWS AFB | 24 | 15 | | | | |
| GLENN L.MARTIN ANG | | | | | | |

ARMY

| | | | | | | |
|-----------------------------------|----|----|----|--|---|--|
| ABERDEEN PRVG GRND, ABERDEEN | | 7 | | | | |
| ABERDEEN PRVG GRND, EDGEWOOD | 18 | 18 | 10 | | 8 | |
| BLOSSOM POINT FIELD TEST ACTIVITY | | | | | | |
| FORT DETRICK | | | | | | |
| FORT MEADE | 2 | | | | | |
| GAITHERSBURG RES FACILITY | | | | | | |
| HARRY DIAMOND LABORATORY | | | | | | |

DEPARTMENT OF DEFENSE
INSTALLATION RESTORATION PROGRAM STATUS REPORT
MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

| PA/SI R2 | RI/FS LTM | RD/RA T C |
|-------------|--------------|--------------|
|-------------|--------------|--------------|

PHOENIX MILITARY RES

1 1 1

NAVY

| | | | |
|--------------------|----|----|---|
| NAS PATUXENT RIVER | 19 | 16 | 2 |
| NIROP CUMBERLAND | 10 | 6 | 6 |
| NOS INDIAN HEAD | 3 | 3 | 1 |
| NSWC WHITE OAK | 7 | 7 | 7 |

MARYLAND STATE TOTALS

84 73 11 16 8 0

MAINE

AIR FORCE

| | | |
|------------|----|----|
| BANGOR ANG | | |
| LORING | 20 | 18 |

DEFENSE LOGISTICS AGENCY

| | | | | | |
|----------------|---|---|---|---|---|
| DFSP CASCO BAY | 3 | 1 | 1 | 1 | 1 |
| DFSP SEARSPORT | | | | | |

NAVY

| | | | |
|---------------|---|---|---|
| NAS BRUNSWICK | 7 | 7 | 7 |
|---------------|---|---|---|

MAINE STATE TOTALS

30 26 0 8 1 1

MICHIGAN

AIR FORCE

| | | | |
|--------------------|----|---|-----|
| BATTLE CREEK ANG | | | |
| K.I.SAWYER | 15 | | |
| PHELPS COLLINS ANG | 16 | 7 | 2 2 |
| SELFRIDGE ANG | 7 | 7 | |
| WURTSMITH | 11 | 4 | 5 |

ARMY

| | | | |
|-----------------------------|---|---|-------|
| DETROIT ARSENAL | 5 | 5 | 1 1 1 |
| KEWEENAW FIELD STATION | | | |
| MICHIGAN ARMY MISSILE PLANT | 4 | 5 | 1 |
| PONTIAC STORAGE FACILITY | | | |
| TANK-AUTOMOTIVE COMMAND | | | |
| SUPPORT ACT | | | |

MICHIGAN STATE TOTALS

58 28 2 8 3 0

DEPARTMENT OF DEFENSE
INSTALLATION RESTORATION PROGRAM STATUS REPORT
MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

PA/SI
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RI/FS
T4 LTM R4

RD/RA
T4 C

MINNESOTA

AIR FORCE

| | | |
|-------------------|----|----|
| DULUTH IAP | 15 | 11 |
| MINN ST. PAUL IAP | 12 | 5 |

ARMY

| | | | | | |
|-----------------|---|----|---|---|---|
| TWIN CITIES AAP | 1 | 15 | 5 | 5 | 5 |
|-----------------|---|----|---|---|---|

NAVY

| | | | | | |
|-------------------|---|---|---|---|---|
| NIROP MINNEAPOLIS | 3 | 3 | 1 | 1 | 1 |
|-------------------|---|---|---|---|---|

| | | | | | | |
|------------------------|----|----|---|---|---|---|
| MINNESOTA STATE TOTALS | 31 | 34 | 5 | 6 | 6 | 1 |
|------------------------|----|----|---|---|---|---|

MISSOURI

AIR FORCE

| | | |
|----------------|---|----|
| LAMBERT ANG | | |
| RICHARDS GEBUR | 2 | 13 |
| ROSECRANS ANG | | |
| WHITEMAN | 6 | 7 |

ARMY

| | | | | | |
|-----------------------------|----|----|---|----|----|
| FORT LEONARD WOOD | | | | | |
| GATEWAY AAP | 13 | 18 | 8 | 18 | 18 |
| LAKE CITY AAP | 1 | 2 | | | |
| ST. LOUIS AAP | | | | | |
| ST. LOUIS ORDNANCE PLANT | 18 | 8 | 8 | | |
| WELDON SPRING TRAINING AREA | | 1 | | | |

| | | | | | | |
|-----------------------|----|----|---|---|----|----|
| MISSOURI STATE TOTALS | 40 | 49 | 8 | 8 | 18 | 18 |
|-----------------------|----|----|---|---|----|----|

MISSISSIPPI

AIR FORCE

| | | | | |
|---------------------|----|----|---|---|
| COLUMBUS AFB | 13 | | 1 | 1 |
| GULFPORT/BILOXI ANG | | | | |
| JACKSON ANG | | | | |
| KEESLER AFB | 17 | 12 | | |
| KEY FIELD ANG | | 1 | | |

ARMY

MISSISSIPPI AAP

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

| PA/SI R2 | RI/FS LTM | R4 | RD/RA T | C |
|-------------|--------------|----|------------|---|
|-------------|--------------|----|------------|---|

NAVY

| | | | | | | |
|--------------------------|----|----|---|---|---|---|
| CSC GULFPORT | 16 | 16 | | | | |
| MISSISSIPPI STATE TOTALS | 46 | 29 | 0 | 1 | 1 | 0 |

MONTANA

AIR FORCE

| | | | | | | |
|------------------------------|----|----|--|--|--|--|
| GREAT FALLS ANG MALMSTROM | 16 | 20 | | | | |
|------------------------------|----|----|--|--|--|--|

ARMY

FORT MISSOULA

| | | | | | | |
|----------------------|----|----|---|---|---|---|
| MONTANA STATE TOTALS | 16 | 20 | 0 | 0 | 0 | 0 |
|----------------------|----|----|---|---|---|---|

NORTH CAROLINA

AIR FORCE

| | | | | | | |
|-------------------------------|----|---|---|---|--|--|
| CHARLOTTE/DOUGLAS ANG POPE | 6 | | 2 | 2 | | |
| SEYMOUR-JOHNSON AFB | 15 | 9 | 5 | 5 | | |

ARMY

CAMP MacKALL
 FORT BRAGG
 MILITARY OCEAN TERMINAL,SUNNY
 POINT
 TARHEEL ARMY MISSILE PLANT

NAVY

| | | | | | | |
|-----------------------------|----|----|---|---|---|---|
| MCAS CHERRY POINT | 14 | 14 | | | | |
| MCB CAMP LEJEUNE | 22 | 22 | | | | |
| NORTH CAROLINA STATE TOTALS | 57 | 45 | 0 | 7 | 7 | 0 |

NORTH DAKOTA

AIR FORCE

| | | | | | | |
|-------------|---|---|--|--|--|--|
| GRAND FORKS | 3 | | | | | |
| HECTOR ANG | | | | | | |
| MINOT | 3 | 3 | | | | |

DEPARTMENT OF DEFENSE
INSTALLATION RESTORATION PROGRAM STATUS REPORT
MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

PA/SI
R2

RI/FS
T LTM R4

RD/RA
T C

AIR FORCE

DFSP GRAND FORKS

1 1

NORTH DAKOTA STATE TOTALS

7 4 0 0 0 0

NEBRASKA

AIR FORCE

LINCOLN ANG
OFFUTT

16

ARMY

CORNHUSKER AAP

77 68 30 30

NEBRASKA STATE TOTALS

93 68 0 30 30 0

NEW HAMPSHIRE

AIR FORCE

NEW BOSTON
PEASE

3
28 19 1 1

DEFENSE LOGISTICS AGENCY

DFSP NEWINGTON

1 1 1 1

NAVY

NSY PORTSMOUTH

1 2

NEW HAMPSHIRE STATE TOTALS

33 22 0 2 2 0

NEW JERSEY

AIR FORCE

FAA TECHNICAL CENTER
MCGUIRE

31 22 1 1

ARMY

ERADCOM FLIGHT TEST ACTIVITY
FORT DIX
FORT MONMOUTH
MILITARY OCEAN TERMINAL, BAYONNE
PICATINNY ARSENAL

15 10
1

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

| | PA/SI R2 | RI/FS T- LTM R4 | RD/RA D C | | | |
|---------------------------|-------------|--------------------|--------------|----|----|---|
| ARMY | | | | | | |
| NAEC LAKEHURST | 46 | 43 | | 10 | | |
| NAPC TRENTON | 10 | 1 | | | | |
| NWS EARLE COLTS NECK | 40 | 11 | | 6 | | |
| NEW JERSEY STATE TOTALS | 128 | 92 | 0 | 17 | 11 | 0 |
| NEW MEXICO | | | | | | |
| AIR FORCE | | | | | | |
| AFP NO.83, ALBUQUERQUE | 5 | 5 | | | | |
| CANNON AFB | 4 | 4 | | | | |
| HOLLOMAN AFB | 1 | 8 | | | | |
| KIRTLAND AFB | 7 | 6 | | 1 | 1 | |
| ARMY | | | | | | |
| FORT WINGATE ADA | 6 | 6 | 6 | | | |
| WHITE SANDS MISSILE RANGE | | | | | | |
| NEW MEXICO STATE TOTALS | 23 | 29 | 6 | 1 | 1 | 0 |
| NEVADA | | | | | | |
| AIR FORCE | | | | | | |
| NELLIS | 5 | 6 | | | | |
| RENO ANG | | | | | | |
| ARMY | | | | | | |
| HAWTHORNE AAP | 5 | 5 | 5 | | | |
| NAVY | | | | | | |
| NAS FALLON | | | | | | |
| NEVADA STATE TOTALS | 10 | 11 | 5 | 0 | 0 | 0 |
| NEW YORK | | | | | | |
| AIR FORCE | | | | | | |
| AFP NO.38 | 13 | 8 | | | | |
| AFP NO.59, JOHNSON CITY | 11 | 3 | | | | |
| GRIFFISS AFB | 15 | 11 | 2 | 6 | | |
| HANCOCK FIELD | 14 | 9 | | | | |
| NIAGARA FALLS IAP | 19 | 13 | | | | |

DEPARTMENT OF DEFENSE
INSTALLATION RESTORATION PROGRAM STATUS REPORT
MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

| | PA/SI R2 | RI/FS T LTM R4 | RD/RA T C |
|---------------------------------|-------------|-------------------|--------------|
| PLATTSBURGH AFB | 5 | | 1 |
| SCHENECTADY ANG | | | |
| STEWART ANG | 2 | 3 | 1 |
| SUFFOLK ANG | | 6 | 1 |
| ARMY | | | |
| FORT DRUM | 4 | 4 | 2 |
| FORT HAMILTON | | | |
| FORT TOTTEN | | | |
| FORT WADSWORTH | | | |
| SENECA AD | | | |
| STEWART ANNEX | | | |
| WATERVLIET ARSENAL | | | |
| WEST POINT MIL RES | | | |
| DEFENSE LOGISTICS AGENCY | | | |
| DFSP VERONA | | | |
| NAVY | | | |
| NWIRP CALVERTON | | | |

| | | | | | | |
|------------------------------|-----------|-----------|----------|----------|----------|----------|
| NEW YORK STATE TOTALS | 83 | 57 | 4 | 7 | 2 | 0 |
|------------------------------|-----------|-----------|----------|----------|----------|----------|

OHIO

AIR FORCE

| | | | |
|-------------------------|----|----|---|
| AFP NO.36, EVANDALE | 11 | | 3 |
| AFP NO.85, COLUMBUS | 15 | 6 | |
| MANSFIELD ANG | | | |
| NEWARK AFS | 12 | 4 | |
| RICKENBACKER ANG | | 21 | |
| SPRINGFIELD-BECKLEY ANG | | | |
| TOLEDO ANG | | | |
| WRIGHT-PATTERSON AFB | 34 | 29 | 1 |
| YOUNGSTOWN | 4 | 4 | |

ARMY

LIMA ARMY TANK CENTER
RAVENNA AAP

DEFENSE LOGISTICS AGENCY

DCSC COLUMBUS
DESC DAYTON
DFSP CINCINNATI
DFSP ESCANABA

| | | | | | | |
|--------------------------|-----------|-----------|----------|----------|----------|----------|
| OHIO STATE TOTALS | 76 | 64 | 0 | 4 | 0 | 0 |
|--------------------------|-----------|-----------|----------|----------|----------|----------|

DEPARTMENT OF DEFENSE
INSTALLATION RESTORATION PROGRAM STATUS REPORT
MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

| PA/SI R2 | RI/FS LTM | R4 | RD/RA T | C |
|-------------|--------------|----|------------|---|
|-------------|--------------|----|------------|---|

OKLAHOMA

AIR FORCE

| | | | | | | |
|-----------------|----|----|---|---|---|--|
| AFP NO.3, TULSA | 13 | 7 | 3 | | | |
| ALTUS AFB | 13 | 9 | | | | |
| TINKER | 39 | 26 | | 2 | 3 | |
| TULSA ANG | | | | | | |
| VANCE AFB | 16 | 7 | | | | |
| WILL ROGERS ANG | | | | | | |

ARMY

FORT SILL
McALESTER AAP
PERRY

| | | | | | | |
|-----------------------|----|----|---|---|---|---|
| OKLAHOMA STATE TOTALS | 81 | 49 | 3 | 2 | 3 | 0 |
|-----------------------|----|----|---|---|---|---|

OREGON

AIR FORCE

| | | | | | | |
|----------------|---|---|--|--|--|--|
| KINGSLEY FIELD | 1 | 4 | | | | |
| PORTLAND ANG | | 8 | | | | |

ARMY

| | | | | | | |
|--------------|---|----|----|--|--|--|
| UMATILLA ADA | 4 | 20 | 20 | | | |
|--------------|---|----|----|--|--|--|

| | | | | | | |
|---------------------|---|----|----|---|---|---|
| OREGON STATE TOTALS | 5 | 32 | 20 | 0 | 0 | 0 |
|---------------------|---|----|----|---|---|---|

PENNSYLVANIA

AIR FORCE

| | | | | | | |
|------------------------|----|---|--|--|--|--|
| GREATER PITTSBURGH IAP | 15 | 2 | | | | |
| OLMSTED FIELD | 6 | 5 | | | | |
| WILLOW GROVE ARF | 17 | 8 | | | | |

ARMY

| | | | | | | |
|------------------------|----|----|--|---|---|---|
| DFAE CARLISLE | | | | | | |
| FORT INDIANTOWN GAP | | | | | | |
| FRANKFORD ARSENAL | 4 | 4 | | 4 | 4 | 2 |
| HAYS AAP | | | | | | |
| LETTERKENNY ARMY DEPOT | 41 | 26 | | | | |
| NEW CUMBERLAND AD | | 2 | | | | |
| OAKDALE SUPPORT CENTER | | | | | | |
| SCRANTON AAP | | | | | | |

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

PA/SI
R2

RI/FS
T LTM R4

RD/RA
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TOBYHANNA AD

DEFENSE LOGISTICS AGENCY

DPSC PHILADELPHIA

NAVY

| | | | | | |
|--------------------|---|---|---|--|--|
| NADC WARMINSTER | 9 | 9 | 4 | | |
| NAS WILLOW GROVE | | | | | |
| NSY PHILADELPHIA | 9 | 5 | 5 | | |
| SPCC MECHANICSBURG | 4 | 4 | | | |

| | | | | | | |
|---------------------------|-----|----|---|----|---|---|
| PENNSYLVANIA STATE TOTALS | 105 | 65 | 0 | 13 | 4 | 2 |
|---------------------------|-----|----|---|----|---|---|

PUERTO RICO

AIR FORCE

MUNIZ ANG

ARMY

FORT BUCHANAN

NAVY

| | | | | | |
|--------------------|----|----|----|--|--|
| NS ROOSEVELT ROADS | 16 | 16 | 16 | | |
| NSGA SEBANA SECA | 2 | 2 | | | |
| SUPSHIP SAN JUAN | | | | | |

| | | | | | | |
|--------------------------|----|----|---|----|---|---|
| PUERTO RICO STATE TOTALS | 18 | 18 | 0 | 16 | 0 | 0 |
|--------------------------|----|----|---|----|---|---|

RHODE ISLAND

DEFENSE LOGISTICS AGENCY

DFSP MELVILLE

NAVY

| | | | | | |
|----------------|---|---|---|---|---|
| CPC DAVISVILLE | 3 | 3 | | | |
| NETC NEWPORT | 9 | 6 | 6 | 3 | 3 |

| | | | | | | |
|---------------------------|----|---|---|---|---|---|
| RHODE ISLAND STATE TOTALS | 12 | 9 | 0 | 6 | 3 | 3 |
|---------------------------|----|---|---|---|---|---|

SOUTH CAROLINA

AIR FORCE

| | | | | | |
|----------------|----|----|---|---|--|
| CHARLESTON AFB | 38 | 23 | 2 | 2 | |
| MCENTIRE ANG | 16 | 8 | | | |

DEPARTMENT OF DEFENSE
INSTALLATION RESTORATION PROGRAM STATUS REPORT
MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

| | PA/SI R2 | RI/FS T LTM R4 | RD/RA T C |
|------------------------------------|-------------|-------------------|----------------|
| MYRTLE BEACH AFB | 19 | 10 | |
| SHAW AFB | 13 | 5 | |
| ARMY | | | |
| CHARLESTON ARMY DEPOT | | | |
| CLARKS HILL RESERVATION | | | |
| FORT JACKSON | | | |
| DEFENSE LOGISTICS AGENCY | | | |
| DFSP CHARLESTON | 1 | 1 | 1 1 |
| DRMO CHARLESTON | 1 | 1 | 1 1 |
| NAVY | | | |
| MCAS BEAUFORT | | | |
| MCRD PARRIS ISLAND | | | |
| NSY CHARLESTON | 8 | 8 | 1 1 1 |
| NWS CHARLESTON | 5 | 7 | |
| SOUTH CAROLINA STATE TOTALS | 101 | 63 | 0 5 5 1 |
| SOUTH DAKOTA | | | |
| AIR FORCE | | | |
| ELLSWORTH AFB | 16 | | |
| JOE FOSS | | 2 | |
| SOUTH DAKOTA STATE TOTALS | 16 | 2 | 0 0 0 0 |
| TENNESSEE | | | |
| AIR FORCE | | | |
| ARNOLD AFB | 32 | 17 | 2 2 |
| KNOXVILLE ANG | | | |
| MEMPHIS ANG | | | |
| NASHVILLE ANG | | | |
| ARMY | | | |
| HOLSTON AAP | 1 | | |
| MILAN AAP | 9 | 4 | 3 1 1 |
| VOLUNTEER AAP | 7 | 7 | 7 |
| DEFENSE LOGISTICS AGENCY | | | |
| DDMT MEMPHIS | 25 | 25 | 3 3 2 |

DEPARTMENT OF DEFENSE
INSTALLATION RESTORATION PROGRAM STATUS REPORT
MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

| PA/SI R2 | T | RI/FS LTM | R4 | RD/RA T | C |
|-------------|---|--------------|----|------------|---|
|-------------|---|--------------|----|------------|---|

NAVY

| | | | | | | |
|---------------|----|----|--|--|--|--|
| NAS MEMPHIS | 15 | 15 | | | | |
| NWIRP BRISTOL | | | | | | |

| | | | | | | |
|------------------------|----|----|---|---|----|---|
| TENNESSEE STATE TOTALS | 89 | 68 | 3 | 6 | 13 | 2 |
|------------------------|----|----|---|---|----|---|

TRUST TERRITORIES

AIR FORCE

| | | | | | | |
|-------------|----|----|--|--|--|--|
| WAKE ISLAND | 12 | 17 | | | | |
|-------------|----|----|--|--|--|--|

| | | | | | | |
|--------------------------------|----|----|---|---|---|---|
| TRUST TERRITORIES STATE TOTALS | 12 | 17 | 0 | 0 | 0 | 0 |
|--------------------------------|----|----|---|---|---|---|

TEXAS

AIR FORCE

| | | | | | | |
|---------------------|----|----|--|---|---|--|
| AFP NO.4, FT. WORTH | 19 | 20 | | | | |
| BERGSTROM AFB | 10 | 10 | | | | |
| BROOKS | 8 | | | | | |
| CARSWELL AFB | 19 | 12 | | | | |
| DYESS | 5 | | | | | |
| ELLINGTON ANG | | 2 | | | | |
| GOODFELLOW AFB | 13 | 4 | | | | |
| KELLY AFB | 39 | 38 | | 3 | 3 | |
| LACKLAND | 3 | 17 | | | | |
| LAUGHLIN | 7 | 9 | | | | |
| RANDOLPH | 4 | 12 | | | | |
| REESE AFB | 6 | 14 | | 1 | 1 | |
| SHEPPARD AFB | 4 | 4 | | | | |

ARMY

| | | | | | | |
|-------------------------------------|----|----|----|---|---|---|
| CAMP BULLIS | | | | | | |
| CORPUS CHRISTI AD | | | | | | |
| FORT BLISS | | 1 | | | | |
| FORT HOOD (NORTH) | | | | | | |
| FORT SAM HOUSTON | | | | | | |
| FUELS AND LUBRICANT RESEARCH LAB | | | | | | |
| LONE STAR AAP | 16 | 14 | 11 | 3 | 3 | 3 |
| LONGHORN AAP | 27 | 27 | 23 | 4 | 4 | |
| RED RIVER ARMY DEPOT | | | | | | |
| SAGINAW AAP | | | | | | |

DEPARTMENT OF DEFENSE
INSTALLATION RESTORATION PROGRAM STATUS REPORT
MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

PA/SI
R2

RI/FS
T LTM R4

RD/RA
T C

NAVY

| | | | | | | |
|--------------------|----|----|--|---|---|--|
| NAS CHASE FIELD | 4 | 4 | | | | |
| NAS CORPUS CHRISTI | 12 | 12 | | | | |
| NAS DALLAS | 5 | 5 | | | | |
| NAS KINGSVILLE | 16 | 7 | | | | |
| NWIRP DALLAS | 9 | 9 | | | | |
| NWIRP MCGREGOR | 7 | 7 | | 2 | 2 | |

| | | | | | | |
|--------------------|-----|-----|----|----|----|---|
| TEXAS STATE TOTALS | 233 | 228 | 34 | 13 | 13 | 3 |
|--------------------|-----|-----|----|----|----|---|

UTAH

AIR FORCE

| | | | | | | |
|--------------------|---|----|--|---|---|---|
| AFP NO.78, CORINNE | 4 | 7 | | | | |
| HILL AFB | 7 | 30 | | 6 | 2 | 2 |
| SALT LAKE CITY ANG | | | | | | |

ARMY

| | | | | | | |
|-----------------------|---|----|----|--|--|--|
| BLANDING LAUNCH AREA | | | | | | |
| DUGWAY PROVING GROUND | | 2 | | | | |
| FORT DOUGLAS | | | | | | |
| GREEN RIVER TEST SITE | | | | | | |
| TOOELE AD | 4 | 80 | 10 | | | |
| WIG MOUNTAIN AREA | | | | | | |

DEFENSE LOGISTICS AGENCY

| | | | | | | |
|------------|---|---|--|--|--|--|
| DDOU OGDEN | 3 | 3 | | | | |
|------------|---|---|--|--|--|--|

NAVY

| | | | | | | |
|-------------|---|--|--|--|--|--|
| NIROP MAGNA | 1 | | | | | |
|-------------|---|--|--|--|--|--|

| | | | | | | |
|-------------------|----|-----|----|---|---|---|
| UTAH STATE TOTALS | 19 | 122 | 10 | 6 | 2 | 2 |
|-------------------|----|-----|----|---|---|---|

VIRGINIA

AIR FORCE

| | | | | | | |
|-------------|----|----|---|---|---|--|
| BYRD ANG | | | | | | |
| LANGLEY AFB | 10 | 10 | 9 | 1 | 1 | |

ARMY

| | | | | | | |
|------------------------|---|---|--|---|---|---|
| ARLINGTON HALL STATION | | | | | | |
| CAMERON STATION | | | | | | |
| FORT A.P.HILL | 1 | 3 | | 3 | 3 | 1 |
| FORT BELVOIR | 5 | 4 | | 1 | 1 | 1 |

DEPARTMENT OF DEFENSE
INSTALLATION RESTORATION PROGRAM STATUS REPORT
MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

| | PA/SI R2 | RI/FS T LTM R4 | RD/RA T C |
|-------------------------------|-------------|-------------------|--------------|
| FORT EUSTIS | | | |
| FORT LEE | | | |
| FORT MONROE | 5 | 5 | 5 |
| FORT MYER | | | |
| FORT PICKETT | | | |
| FORT STORY | | | |
| RADFORD AAP | | 1 | 1 |
| VINT HILL FARMS STATION | 1 | 1 | 1 |
| WOODBIDGE RESEARCH FACILITY | | 2 1 1 | 1 1 |
| DEFENSE LOGISTICS AGENCY | | | |
| DGSC RICHMOND | 3 | 4 | 1 1 |
| NAVY | | | |
| FCTC DAM NECK | 4 | 4 | |
| MCDEC QUANTICO | 6 | 5 | |
| NAB LITTLE CREEK | | | |
| NAS NORFOLK | | | |
| NAS OCEANA | 6 | 6 | |
| NB NORFOLK (SEWELL'S POINT) | 6 | 5 | |
| NRTF DRIVER | 2 | 1 | |
| NSC CHEATHAM ANX WILLIAMSBURG | 20 | 20 | |
| NSC CRANEY ISLAND | 5 | 6 | |
| NSC NORFOLK | | | |
| NSWC DAHLGREN | 7 | 5 | 2 2 2 |
| NSY NORFOLK | 9 | 7 | |
| NWS YORKTOWN | 15 | 15 | |
| PWC NORFOLK | 4 | 1 | |
| ST.JULIEN'S CREEK ANNEX | | | |
| <hr/> | | | |
| VIRGINIA STATE TOTALS | 109 | 105 10 9 | 16 5 |
| VERMONT | | | |
| AIR FORCE | | | |
| BURLINGTON ANG | 2 | 2 | |
| ARMY | | | |
| ETHAN ALLEN FIRING RANGE | | | |
| <hr/> | | | |
| VERMONT STATE TOTALS | 2 | 2 0 0 | 0 0 |

DEPARTMENT OF DEFENSE
INSTALLATION RESTORATION PROGRAM STATUS REPORT
MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

| PA/SI R2 | T | RI/FS LTM | R4 | RD/RA T | C |
|-------------|---|--------------|----|------------|---|
|-------------|---|--------------|----|------------|---|

WASHINGTON

AIR FORCE

| | | | | | |
|---------------|----|----|--|---|---|
| BOEING FIELD | 12 | 14 | | | |
| FAIRCHILD AFB | 34 | 29 | | 7 | 1 |
| MCCHORD | | | | | |

ARMY

| | | | | | | |
|----------------------|--|---|---|---|---|---|
| FORT LEWIS | | 3 | 1 | 1 | 1 | 1 |
| YAKIMA FIRING CENTER | | | | | | |

DEFENSE LOGISTICS AGENCY

| | | | | | | |
|---------------|---|---|--|---|---|--|
| DPSP MUKILTEO | 2 | 2 | | 1 | 1 | |
|---------------|---|---|--|---|---|--|

NAVY

| | | | | | |
|--------------------|----|----|--|--|--|
| NAS WHIDBEY ISLAND | 35 | 37 | | | |
| NSB BANGOR | 12 | 14 | | | |
| NSY PUGET SOUND | | | | | |
| NUWES KEYPORT | 6 | 6 | | | |

| | | | | | | |
|-------------------------|-----|-----|---|---|---|---|
| WASHINGTON STATE TOTALS | 101 | 105 | 1 | 9 | 3 | 1 |
|-------------------------|-----|-----|---|---|---|---|

WISCONSIN

AIR FORCE

| | | | | | |
|---------------------------|---|----|--|--|--|
| GEN. BILLY MITCHELL FIELD | 4 | 4 | | | |
| TRUAX ANG | | | | | |
| VOLK FIELD ANG | 8 | 11 | | | |

ARMY

| | | | | | |
|------------|----|----|--|--|--|
| BADGER AAP | 15 | 14 | | | |
| FORT McCOY | | | | | |

| | | | | | | |
|------------------------|----|----|---|---|---|---|
| WISCONSIN STATE TOTALS | 27 | 29 | 0 | 0 | 0 | 0 |
|------------------------|----|----|---|---|---|---|

WEST VIRGINIA

AIR FORCE

| | | | | | |
|-----------------|--|---|--|--|--|
| CHARLESTON AFB | | | | | |
| MARTINSBURG ANG | | | | | |
| SHEPHERD FIELD | | 1 | | | |

DEPARTMENT OF DEFENSE
 INSTALLATION RESTORATION PROGRAM STATUS REPORT
 MASTER STATUS LISTING AS OF 30 SEPTEMBER 1986

PA/SI
R2

RI/FS
T LTM R4

RD/RA
T C

ARMY

WEST VIRGINIA ORDNANCE WORKS 6 6

NAVY

ALLEGANY BALLISTICS LAB 6 6

WEST VIRGINIA STATE TOTALS 6 13 0 0 6 0

WYOMING

AIR FORCE

CHEYENNE ANG
 F.E. WARREN AFB 14 14 1 1

WYOMING STATE TOTALS 14 14 0 1 1 0

GRAND TOTALS 3520 3182 234 462 407 99

APPENDIX B

STATUS REPORT

Summary Table III

| State | Number of Installations | Number of | | |
|----------------------|-------------------------|-----------|-------|-------|
| | | PA/SI | RI/FS | RD/RA |
| ALASKA | 59 | 168 | 158 | 46 |
| ALABAMA | 10 | 134 | 120 | 79 |
| ARKANSAS | 5 | 70 | 42 | 10 |
| ARIZONA | 11 | 38 | 48 | 5 |
| CALIFORNIA | 63 | 325 | 452 | 23 |
| COLORADO | 9 | 253 | 108 | 10 |
| CONNECTICUT | 3 | 4 | 4 | 0 |
| DISTRICT OF COLUMBIA | 4 | 3 | 0 | 0 |
| DELAWARE | 3 | 7 | 13 | 3 |
| FLORIDA | 18 | 276 | 232 | 3 |
| GEORGIA | 13 | 105 | 78 | 22 |
| GUAM | 3 | 7 | 16 | 0 |
| HAWAII | 20 | 32 | 57 | 4 |
| IOWA | 3 | 11 | 15 | 0 |
| IDAHO | 3 | 12 | 9 | 4 |
| ILLINOIS | 11 | 103 | 81 | 11 |
| INDIANA | 9 | 52 | 31 | 1 |
| KANSAS | 7 | 24 | 7 | 0 |
| KENTUCKY | 6 | 0 | 12 | 0 |
| LOUISIANA | 6 | 74 | 34 | 2 |
| MASSACHUSETTS | 10 | 57 | 73 | 25 |
| MARYLAND | 14 | 84 | 73 | 8 |
| MAINE | 5 | 30 | 26 | 1 |
| MICHIGAN | 10 | 58 | 28 | 3 |
| MINNESOTA | 4 | 31 | 34 | 6 |
| MISSOURI | 10 | 40 | 49 | 18 |
| MISSISSIPPI | 7 | 46 | 29 | 1 |
| MONTANA | 3 | 16 | 20 | 0 |
| NORTH CAROLINA | 9 | 57 | 45 | 7 |
| NORTH DAKOTA | 4 | 7 | 4 | 0 |
| NEBRASKA | 3 | 93 | 68 | 30 |
| NEW HAMPSHIRE | 4 | 33 | 22 | 2 |
| NEW JERSEY | 10 | 128 | 92 | 11 |
| NEW MEXICO | 6 | 23 | 29 | 1 |
| NEVADA | 4 | 10 | 11 | 0 |
| NEW YORK | 19 | 83 | 57 | 2 |
| OHIO | 15 | 76 | 64 | 0 |
| OKLAHOMA | 9 | 81 | 49 | 3 |
| OREGON | 3 | 5 | 32 | 0 |
| PENNSYLVANIA | 17 | 105 | 65 | 4 |
| PUERTO RICO | 5 | 18 | 18 | 0 |
| RHODE ISLAND | 3 | 12 | 9 | 3 |
| SOUTH CAROLINA | 13 | 101 | 63 | 5 |
| SOUTH DAKOTA | 2 | 16 | 2 | 0 |
| TENNESSEE | 10 | 89 | 68 | 13 |
| TRUST TERRITORIES | 1 | 12 | 17 | 0 |
| TEXAS | 29 | 233 | 228 | 13 |
| UTAH | 11 | 19 | 122 | 2 |
| VIRGINIA | 31 | 109 | 105 | 16 |

STATUS REPORT

Summary Table III

| State | Number of Installations | Number of | | |
|---------------|-------------------------|-----------|-------|-------|
| | | PA/SI | RI/FS | RD/RA |
| VERMONT | 2 | 2 | 2 | 0 |
| WASHINGTON | 10 | 101 | 105 | 3 |
| WISCONSIN | 5 | 27 | 29 | 0 |
| WEST VIRGINIA | 5 | 6 | 13 | 6 |
| WYOMING | 2 | 14 | 14 | 1 |
| | TOTALS | 3520 | 3182 | 407 |

APPENDIX C

LIST OF ACRONYMS AND ABBREVIATIONS

| | |
|----------|---|
| AAP | Army Ammunition Plant |
| AFB | Air Force Base |
| AFP | Air Force Plant |
| AFR | Air Force Reserve |
| AFS | Air Force Station |
| AMMO | Ammunition |
| ANGB | Air National Guard Base |
| DFSP | Defense Fuel Support Point |
| DLA | Defense Logistics Agency |
| DoD | Department of Defense |
| EPA | Environmental Protection Agency |
| FAC | Facility |
| FCTC | Fleet Combat Training Center |
| Ft | Fort |
| IAP | International Airport |
| IRP | Installation Restoration Program |
| MCAS | Marine Corps Air Station |
| MCB | Marine Corps Base |
| MCLB | Marine Corps Logistics Base |
| MCRD | Marine Corps Recruit Depot |
| NAB | Naval Amphibious Base |
| NAEC | Naval Air Engineering Center |
| NAF | Naval Air Facility |
| NARL | Naval Arctic Research Laboratory |
| NAS | Naval Air Station |
| NAV | Naval |
| NCBC | Naval Construction Battalion Center |
| NCP | National Contingency Plan |
| NCS | Naval Communications Center |
| NDIV | Northern Division, Naval Facilities Engineering Command |
| NIROP | Naval Industrial Reserve Ordnance Plant |
| NOS | Naval Ordnance Station |
| NRMC | Naval Regional Medical Center |
| NRS | Naval Radio Station |
| NRTF | Naval Radio Transmitting Facility |
| NS | Naval Station |
| NSB | Naval Submarine Base |
| NSC | Naval Supply Center |
| NUSC | Naval Underwater Systems Center |
| NUWES | Naval Underwater Weapons Engineering Station |
| NYSD | Naval Shipyard |
| NWIRP | Naval Weapons Industrial Reserve Plant |
| NWS | Naval Weapons Station |
| R,D&D | Research, Development and Demonstration |
| SUB | Submarine |
| USAE WES | US Army Engineers Waterways Experiment Station |
| USMC | US Marine Corps |

TAB B

Fiscal Year 1986 Annual Report of the Defense
Environmental Restoration Program

FISCAL YEAR 1986

ANNUAL REPORT

OF THE

DEFENSE ENVIRONMENTAL
RESTORATION PROGRAM



OFFICE OF THE DEPUTY ASSISTANT SECRETARY OF DEFENSE
(ENVIRONMENT)

WASHINGTON, D.C. 20301-8000

JANUARY 1987

ANNUAL REPORT

Defense Environmental Restoration Program

SUMMARY

The primary goal of the Defense Environmental Restoration Program is to clean up contamination at toxic and hazardous waste sites. In FY 1986, the Congress appropriated \$360 million for the program. These funds were used to expand and accelerate studies and remedial actions at more than 1900 sites on DoD installations. In addition, we have completed or have underway investigations at more than 1600 formerly-owned or used sites and projects at 125. The Department is committed to carry out the program in cooperation with the Environmental Protection Agency and State agencies, with full public participation, and in compliance with environmental laws and regulations.

BACKGROUND

The Defense Environmental Restoration Program, established by the Congress in 1984, provides increased emphasis and visibility for an expanded and accelerated effort for cleanup actions at toxic and hazardous waste sites on DoD installations and provides for cleanup of properties formerly-used by the Department of Defense (DoD). The program consists of the following:

- **Installation Restoration Program (IRP):** a comprehensive program to identify, investigate, and cleanup contamination from hazardous substances and wastes on both active installations and formerly-used DoD properties. This includes requirements incident to remedial action, both on-installation and off-installation.

- **Building Demolition and Debris Removal (BD/DR):** a comprehensive program to demolish and remove unsafe buildings and structures. It applies to both active installations and formerly-used DoD properties.

- **Other Hazardous Waste Operations (OHW):** includes equipment purchases which will reduce hazardous waste generation and research, development and demonstration projects related to hazardous waste, including unexploded ordnance detection and disposal and clearance of active and former ranges, and innovative technologies for hazardous or toxic waste site cleanups.

The DoD, like private industry engages in many industrial and manufacturing operations and, in the course of doing so, uses large amounts of industrial chemicals. Although, in the past, waste from these operations was disposed of by accepted practices, we have found that past practices may have resulted in inadvertent environmental contamination and risks to people and the environment.

We have identified about 3,500 sites on DoD installations with the potential for contamination. The IRP identifies, investigates and provides appropriate studies and remedial actions at these potential sites. Over 100 of these sites have already been cleaned up and another 3,200 are undergoing studies or are in some stage of remediation. Additionally, there are approximately 7,000 identified potential hazardous or toxic waste sites on properties formerly-owned or used by the DoD which require investigation to determine the degree of DoD responsibility, if any.

PROGRESS

In FY 1986, program management was enhanced by the appointment of a new Deputy Assistant Secretary of Defense for Environment (DASD(E)), Mr. Carl J. Schafer, Jr., to provide oversight and direct the expenditure of the \$360 million appropriation.

The DASD(E) allocated \$246 million to the Services to carry out installation restoration work at over 1,900 sites. These funds were expended on site studies and cleanups. Like EPA, DoD follows the National Contingency Plan (NCP). Therefore, progress of site cleanup can be divided into the following steps: Preliminary Assessments/Site Inspections (PA/SI); Remedial Investigations/Feasibility Studies (RI/FS); and Remedial Actions (RA). Appendix A provides additional information on these steps.

Essentially all of the PA/SI work is complete. FY 1986 resources were targeted to RI/FS and RA projects. Specifically, funds were expended at 1,811 sites for RI/FS work and 293 sites for Remedial Actions. A detailed list of these sites, arranged by Service and State, is attached.

Complementing this effort is the work the DoD is doing on properties formerly owned or used by the department. In FY 1986 the total sites investigated exceeded 1,160 and there are 490 more underway. These investigations resulted in completed or ongoing remediation projects at 125 sites in FY 1986 and 50 more are expected to begin in FY 1987. Of the FY 1986 projects, 112 are for removal of unsafe buildings, structures or debris, 11 are for removal of hazardous or toxic substances and 2 are for RI/FS work at sites where DoD was the lead.

Total expenditures for BD/DR were approximately \$27 million in FY 1986. The majority of these efforts occurred at formerly used or owned DoD properties.

The Environmental Restoration Program also provides funds for related functions such as hazardous waste reduction/minimization, and detection and disposal of unexploded ordnance. The DASD(E) allocated \$27 million for technology development and other activities for waste reduction and improvements in site remediation practices. Specifically, the DoD established a working group consisting of DoD, EPA and the Department of Energy. The group has identified 63 projects representing a wide range of technologies to cleanup and minimize hazardous waste. DoD is funding 42% of this effort. This, coupled with innovative technology in solvent recycling, explosive manufacturing, hard chrome plating, plastic media paint stripping, boiler cleaning chemical recycling and various hazardous waste equipment purchases; accounted for the FY1986 expenditure in their area.

The FY 1986 budget for environmental restoration also included \$61 million for hazardous waste disposal operations. In FY 1987 and beyond, this function will be financed in the Services' Operations and Maintenance appropriations.

The accompanying data provide detailed information concerning the specific sites. It should be noted that this information only addresses efforts utilizing FY1986 dollars. Projects which were funded in prior years yet completed in 1986 add to DoD's accomplishments.

The Congress, in 1987, appropriated \$376 million to continue the momentum. The Department's top priority remains the cleanup of toxic and hazardous waste sites. The DASD(E) will continue to exercise aggressive oversight to insure that the funds are applied consistent with the policy of worst first.

Summary of Hazardous Waste

Remediation FY 1986 IRP

| | # of Installations | # of Sites | # of Projects* | | | Total |
|-----------|-----------------------|---------------|----------------|----------|----------|-----------|
| | | | PA/SI | RI/FS | RD/RA | |
| Army | 45 | 146 | -- | 119 | 50 | 169 |
| Navy | 55 | 465 | -- | 465 | -- | 465 |
| Air Force | 125 | 1299 | -- | 1218 | 242 | 1460 |
| DLA | <u>9</u> | <u>10</u> | <u>--</u> | <u>9</u> | <u>1</u> | <u>10</u> |
| Total | 234 | 1920 | 0 | 1811 | 293 | 2104 |

*Note Project counts do not equal site counts as some sites have multiple projects funded in FY 86.

NOTE: Appendix A is the listing of sites in the FY 1986 IR Program sorted by service. Appendix B is the same information sorted by state.

APPENDIX A

ARMY

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | Description | Project |
|---|-----------------------------|---------|
| ** ABERDEEN PRVG GRND, ABERDEEN, MD (ARMY) | | |
| SITE 2 | CARROL ISLAND | RI/FS |
| SITE 3 | GRACES QRTS | RI/FS |
| SITE 4 | O-FIELD | RI/FS |
| SITE 5 | CANAL CREEK | RI/FS |
| SITE 6 | NIKE SITE | RI/FS |
| SITE 7 | WHITE PHOSPHORUS DISPOSAL | RI/FS |
| ** ALABAMA AAP, AL (ARMY) | | |
| SITE 10 | MAGAZINE AREA | RA |
| SITE 11 | OLD BURNING GROUNDS | RA |
| SITE 12 | SMALL ARMS BALLASTICS RANGE | RA |
| SITE 13 | OLD WELL | RA |
| SITE 14 | PROPELLANT SHIPPING HOUSES | RA |
| SITE 15 | SITES 6-24 | RA |
| ** ANNISTON AD, AL (ARMY) | | |
| SITE 1 | BLDG 114 | RA |
| SITE 2 | Z-1 | RA |
| SITE 3 | BLDG 130 | RA |
| SITE 4 | LANDFILL (SOUTH) | RA |
| SITE 20 | OTHER (OPTION OF GWTS) | RA |
| ** CORNHUSKER AAP, NE (ARMY) | | |
| SITE 2 | EARTHEN IMPOUNDMENTS (56) | RA |
| ** DUGWAY PROVING GROUND, UT (ARMY) | | |
| SITE 1 | OPEN PITS | RV/FS |
| SITE 2 | DUMP SITE | RV/FS |
| ** FORT BLISS, TX (ARMY) | | |
| SITE 1 | FIRE FIGHTING TRAINING AREA | RV/FS |
| ** FORT CAMPBELL, KY (ARMY) | | |
| SITE 2 | CAMPBELL AIR FIELD | RV/FS |
| ** FORT DIX, NJ (ARMY) | | |
| SITE 3 | TCE DUMPSITE | RV/FS |
| SITE 4 | NPL LANDFILL | RV/FS |
| SITE 5 | DIO MAINTENANCE | RV/FS |
| SITE 6 | DIO TRANS DIV MOTOR POOL | RV/FS |
| SITE 7 | OPT AVIATION DIV | RV/FS |
| SITE 8 | DEH MOTOR POOL | RV/FS |
| SITE 9 | AAFES PX SERVICE STATION | RV/FS |
| SITE 10 | 5TH BDE MOTOR POOL | RV/FS |
| SITE 11 | 5TH BDE MAINTENANCE | RV/FS |
| SITE 12 | 2/5 BN MOTOR POOL | RV/FS |
| SITE 13 | 3/5 BN MOTOR POOL | RV/FS |
| SITE 14 | 78TH DIV RESERVES ECS 26 | RV/FS |
| SITE 15 | OPCA AUTO CRAFT SHOP | RV/FS |
| SITE 16 | 511/759TH M.P. MOTOR POOL | RV/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|---|----|--|---------|
| SITE | 17 | 556TH MED AMB MOTOR POOL | RI/FS |
| SITE | 18 | 39TH ENGR MOTOR POOL | RI/FS |
| SITE | 19 | DIO MAINTENANCE | RI/FS |
| ** FORT EUSTIS, #A (ARMY) | | | |
| SITE | 1 | HELICOPTER MAINTENANCE AREA | RI/FS |
| SITE | 3 | SEVERAL OLD LANDFILLS | RI/FS |
| ** FORT IRWIN, CA (ARMY) | | | |
| SITE | 1 | VALLEY DISPOSAL SITE | RI/RA |
| SITE | 2 | OB/OD AREA | RI/RA |
| SITE | 3 | TROOP LANDFILL | RI/RA |
| SITE | 4 | DUCK POND | RI/RA |
| ** FORT KNOX, KY (ARMY) | | | |
| SITE | 1 | POL CONTAMINATED SOIL | RI/RA |
| ** FORT LEWIS, WA (ARMY) | | | |
| SITE | 2 | FIRE PIT/EOD RANGE | RI/FS |
| SITE | 3 | LANDFILL 5 | RI/FS |
| SITE | 4 | LOG CENTER | RI/FS |
| ** FORT MCCLELLAN, AL (ARMY) | | | |
| SITE | 4 | RANGE T-24A | RI/FS |
| SITE | 5 | RANGE T-38 | RI/FS |
| SITE | 6 | RANGE I | RI/FS |
| SITE | 7 | RANGE J | RI/FS |
| SITE | 8 | RANGE L | RI/FS |
| SITE | 9 | RANGE K | RI/FS |
| SITE | 10 | FORMER LANDFILL | RI/FS |
| SITE | 11 | FORMER LANDFILL | RI/FS |
| SITE | 12 | FORMER LANDFILL | RI/FS |
| ** FORT ORD, CA (ARMY) | | | |
| SITE | 11 | FIRE PRATICE AREA | RI/FS |
| SITE | 12 | LANDFILL | RI/FS |
| ** FORT WAINWRIGHT, AK (ARMY) | | | |
| SITE | 2 | OLD DRUM STORAGE AREA | RI/FS |
| SITE | 3 | FAMILY HOUSING AREA | RI/FS |
| SITE | 4 | COAL PILE | RI/FS |
| ** HAMPTON ARMY AIR FIELD, CA (ARMY) | | | |
| SITE | 1 | EXCESS SITE | RI/RA |
| ** IOWA AAP, IA (ARMY) | | | |
| SITE | 2 | PINK WATER LAGOON-FORMER LINE 1 IMPOUNDY | RI/FS |
| SITE | 3 | INERT LANDFILL | RI/FS |
| ** JOLET AAP, IL (ARMY) | | | |
| SITE | 2 | MANUFACTURING AREA | RI/FS |
| ** KANSAS AAP, KS (ARMY) | | | |
| SITE | 1 | LAP DEMOLITION AND LANDFILL | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | Description | Project |
|---|-----------------------------------|---------|
| ** LAKE CITY AAP, MD (ARMY) | | |
| SITE 1 | LANDFILL AND OTHERS | RI/FS |
| SITE 2 | LAGOONS | RA |
| SITE 3 | CONTAMINATED SOIL | RA |
| ** LETTERKENNY ARMY DEPOT, PA (ARMY) | | |
| SITE 1 | DPDO AREA | RI/FS |
| SITE 2 | DISPOSAL AREA | RI/FS |
| SITE 3 | LAGOON | RI/FS |
| SITE 4 | SOUTHEAST INDUSTRIAL AREA | RI/FS |
| ** LONE STAR AAP, TX (ARMY) | | |
| SITE 5 | MIGRATION MANAGEMENT | RI/FS |
| SITE 6 | OLD DEMOLITION GROUNDS | RI/FS |
| SITE 7 | OLD WELLS AND CISTERNS | RI/FS |
| ** LONGHORN AAP, TX (ARMY) | | |
| SITE 3 | UNLINED EVAPORATION POND | RA |
| ** LOUISIANA AAP, LA (ARMY) | | |
| SITE 1 | AREA P | RI/FS |
| SITE 2 | BG5 | RI/FS |
| SITE 3 | LANDFILL 3 | RI/FS |
| SITE 4 | LANDFILL 8 | RI/FS |
| ** MILAN AAP, TN (ARMY) | | |
| SITE 1 | HIGH PRESSURE WASHOUT SYSTEM | RI/FS |
| SITE 2 | OPEN BURNING/OPEN DETONATION AREA | RI/FS |
| ** NATICK R&D COMMAND, MA (ARMY) | | |
| SITE 1 | FIRE PIT AREA | RA |
| ** NEW CUMBERLAND AD, PA (ARMY) | | |
| SITE 1 | EASTERN DISTRIBUTION CENTER | RA |
| SITE 3 | SOLVENT TANK T-950 | RA |
| ** PHOENIX NIKE, MD (ARMY) | | |
| SITE 1 | TOTAL NIKE SITE | RA |
| ** PRESIDIO OF MONTEREY, CA (ARMY) | | |
| SITE 3 | DUMP 1 | RI/FS |
| ** PUEBLO DEPOT ACTIVITY, CO (ARMY) | | |
| SITE 1 | SEVERAL SITES | RI/FS |
| ** RADFORD AAP, VA (ARMY) | | |
| SITE 1 | LAGOON | RA |
| SITE 2 | OTHER SITES | RI/FS |
| ** RED RIVER ARMY DEPOT, TX (ARMY) | | |
| SITE 1 | OTC AREA | RA |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|---|----|--------------------------------|---------|
| SITE | 2 | CHROMATE SLUDGE BED | RA |
| ** RIVERBANK AAP, CA (ARMY) | | | |
| SITE | 1 | IWTP | RI/RA |
| SITE | 2 | SITES 2-10 | RI/RA |
| ** ROCKY MOUNTAIN ARSENAL, CO (ARMY) | | | |
| | | REMEDIAL INVESTIGATIONS | RI/FS |
| | | ENDANGERMENT ASSESSMENT | RI/FS |
| | | FEASIBILITY STUDY | RI/FS |
| | | DESIGN AND EXECUTION (REMOVAL) | RI/FS |
| | | OPERATION AND MAINT. | RI/FS |
| | | PROGRAM SUPPORT | RI/FS |
| ** SACRAMENTO AD, CA (ARMY) | | | |
| SITE | 1 | OXIDATION LAGOON | RI/FS |
| SITE | 3 | BURN PIT | RI/FS |
| SITE | 4 | UNDERGROUND TANKS | RA |
| ** SHARPE ARMY DEPOT, CA (ARMY) | | | |
| SITE | 1 | SOUTH BALLOON AREA | RI/RA |
| SITE | 2 | NORTH BALLOON AREA | RI/FS |
| SITE | 3 | SITES 3-14 | RA |
| ** TOOELE AD, UT (ARMY) | | | |
| SITE | 1 | WINDOWS | RI/FS |
| SITE | 2 | INDUSTRIAL WASTE POND | RI/FS |
| SITE | 3 | CAMDS | RI/FS |
| SITE | 4 | GRAVEL PIT | RI/FS |
| SITE | 5 | PITS (UNKNOWN NUMBER) | RI/FS |
| SITE | 6 | MUSTARD HOLDING AREA | RI/FS |
| SITE | 7 | EXPLOSION CRATERS | RI/FS |
| SITE | 11 | DRAINAGE PONDS | RI/FS |
| SITE | 12 | SPOIL AREA | RI/FS |
| ** TWIN CITIES AAP, MN (ARMY) | | | |
| SITE | 1 | SLUDGE AND SUMP ANALYSIS | RA |
| SITE | 3 | 129-3 | RI/RA |
| SITE | 4 | 129-5 | RI/RA |
| SITE | 5 | 129-15 | RI/RA |
| SITE | 6 | A | RI/RA |
| SITE | 7 | B | RI/RA |
| SITE | 8 | C | RI/RA |
| SITE | 9 | D | RI/RA |
| SITE | 10 | E | RI/RA |
| SITE | 11 | F | RI/RA |
| SITE | 12 | G | RI/RA |
| SITE | 13 | H | RI/RA |
| SITE | 14 | I | RI/RA |
| SITE | 15 | J | RI/RA |
| SITE | 16 | K | RI/RA |
| ** VOLUNTEER AAP, TN (ARMY) | | | |
| SITE | 1 | MONITORING | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | Description | Project |
|---|------------------------|---------|
| ** WELDON SPRING TRAINING AREA, MD (ARMY) | | |
| SITE 1 | DOE/DA MOU | RI/FS |
| ** WEST PALM BEACH, FL (ARMY) | | |
| SITE 1 | ANNEX I AND II | RA |
| ** WEST VIRGINIA ORDNANCE WORKS, WV (ARMY) | | |
| SITE 2 | TNT AREA | RI/FS |
| SITE 3 | BURNING GROUNDS | RI/FS |
| SITE 4 | PROCESS SEWER LINES | RI/FS |
| SITE 5 | YELLOW WATER/ACID AREA | RI/FS |
| SITE 6 | RED WATER RESVRS AREA | RI/FS |
| SITE 7 | POND B AREA | RI/FS |
| ** WHITE SANDS MISSILE RANGE, NM (ARMY) | | |
| SITE 1 | SEVERAL SITES | RI/FS |
| ** WOODBRIDGE RESEARCH FACILITY, VA (ARMY) | | |
| SITE 2 | PCB BURIAL SITE | RI/FS |
| ** YUMA PROVING GROUND, AZ (ARMY) | | |
| SITE 1 | LEAD ARSENIC SITE | RA |

NAVY

DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)

| Site Name | | Description | Project |
|--|----|--------------------------------------|---------|
| ** CBC GULFPORT, MS (NAVY) | | | |
| SITE | 1 | FIRE FIGHTING TRAINING AREA | RI/FS |
| SITE | 2 | DISASTER RECOVERY DISPOSAL AREA | RI/FS |
| SITE | 3 | WW II LANDFILL | RI/FS |
| SITE | 4 | NW LANDFILL | RI/FS |
| SITE | 5 | GOLF COURSE LANDFILL | RI/FS |
| SITE | 6 | HEAVY EQ. TRAINING AREA LNDFL | RI/FS |
| SITE | 7 | RUBBLE DISPOSAL AREA | RI/FS |
| SITE | 8 | BUILDING FOUNDATION 271 | RI/FS |
| ** CBC PORT HUENEME, CA (NAVY) | | | |
| SITE | 1 | NCEL STOR. YD | RI/FS |
| SITE | 12 | EARTH MOVING AREA | RI/FS |
| SITE | 13 | HARBOR AND CANALS | RI/FS |
| SITE | 14 | PROPOSED NTC BLDG SITE | RI/FS |
| SITE | 15 | CED PCB SPILLS | RI/FS |
| SITE | 17 | MUSE PCB SPILL | RI/FS |
| SITE | 19 | TRANSFORMER STOR. | RI/FS |
| SITE | 20 | HW MAG. | RI/FS |
| ** MCAS CHERRY POINT, NC (NAVY) | | | |
| SITE | 1 | BORROW PIT/DUMP SITE | RI/FS |
| SITE | 2 | BORROW PIT/LANDFILL | RI/FS |
| SITE | 5 | OLD SANITARY LANDFILL | RI/FS |
| SITE | 6 | AREA AND DITCH BEHIND NALF | RI/FS |
| SITE | 7 | LANDFILL AT SANDY BRANCH | RI/FS |
| SITE | 8 | DPOO STORAGE AREA | RI/FS |
| SITE | 8 | BORROW PIT/LANDFILL NORTH OF RNWY 14 | RI/FS |
| SITE | 9 | BORROW PIT/LANDFILL | RI/FS |
| SITE | 10 | STORAGE TANK FOR WASTE POL | RI/FS |
| SITE | 10 | FLY ASH PONDS | RI/FS |
| SITE | 11 | OLD INCINERATOR | RI/FS |
| SITE | 12 | TANK FARM A | RI/FS |
| SITE | 12 | FACILITIES MANT. COMPOUND | RI/FS |
| SITE | 13 | BORROW PIT/LANDFILL | RI/FS |
| ** MCAS EL TORO, CA (NAVY) | | | |
| SITE | 1 | GRDNANCE DISPOSAL AREA | RI/FS |
| SITE | 2 | COMM STATION LNDFL | RI/FS |
| SITE | 3 | CRASH CREW PIT NO. 1 | RI/FS |
| SITE | 5 | TRANSFORMER STOR. AREA | RI/FS |
| SITE | 9 | BATTERY ACID DISP PIT | RI/FS |
| SITE | 9 | CRASH CREW PIT NO 2 | RI/FS |
| SITE | 11 | MAGAZINE RD LANDFILL | RI/FS |
| SITE | 14 | ORIGINAL LANDFILL | RI/FS |
| SITE | 16 | PERIMETER RD LANDFILL | RI/FS |
| ** MCAS KANEHE, HI (NAVY) | | | |
| SITE | 1 | H-3 LNDFL | RI/FS |
| ** MCAS TUSTIN, CA (NAVY) | | | |
| SITE | 1 | HOFFETT TRENCHES & CRASH PIT | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|---|----|------------------------------------|---------|
| SITE | 2 | DRAINAGE NO. 1 | RI/FS |
| SITE | 3 | GROUND ADJACENT TO ARPON | RI/FS |
| SITE | 5 | OIL DISPOSAL AREA | RI/FS |
| SITE | 7 | PAINT STRIPPER DISPOSAL AREA | RI/FS |
| SITE | 10 | DRUM STORAGE AREA NO. 2 | RI/FS |
| SITE | 12 | DRUM STORAGE AREA NO. 3 | RI/FS |
| ** MCAS YUMA, AZ (NAVY) | | | |
| SITE | 3 | FIRE SCHOOL | RI/FS |
| SITE | 4 | SE SEWAGE LAGOON | RI/FS |
| ** MCB CAMP LEJEUNE, NC (NAVY) | | | |
| SITE | 1 | CAMP GEIGER AREA FUEL FARM | RI/FS |
| SITE | 2 | FRENCH CREEK LIQUIDS DISPOSAL AREA | RI/FS |
| SITE | 3 | FORMER NURSERY/DAY CARE CENTER | RI/FS |
| SITE | 4 | STORAGE LOTS 201 AND 203 | RI/FS |
| SITE | 5 | FIRE FIGHTING TRAINING PIT | RI/FS |
| SITE | 6 | TRANSFORMER STORAGE LOT 140 | RI/FS |
| SITE | 7 | INDUSTRIAL TANK FARM AREA | RI/FS |
| SITE | 8 | INDUSTRIAL FLY ASH DUMP | RI/FS |
| SITE | 9 | HADNOT POINT BURN DUMP | RI/FS |
| SITE | 10 | SNEADS FERRY ROAD FUEL TANK AREA | RI/FS |
| SITE | 11 | CAMP GEIGER DUMP | RI/FS |
| SITE | 12 | UNDERGROUND AVGAS STORAGE | RI/FS |
| SITE | 13 | MCAS NEW RIVER MERCURY DUMP SITE | RI/FS |
| SITE | 14 | CRASH CREW FIRE TRAINING | RI/FS |
| SITE | 15 | RIFLE RANGE DUMP | RI/FS |
| SITE | 16 | RIFLE RANGE CHEMICAL DUMP | RI/FS |
| SITE | 17 | LIQUID DISPOSAL | RI/FS |
| SITE | 18 | MESS HALL GREASE PIT AREA | RI/FS |
| SITE | 19 | BASKETBALL COURT SITE | RI/FS |
| SITE | 20 | CURTIS ROAD SITE | RI/FS |
| SITE | 21 | NEW RIVER OFFICER'S HOUSING AREA | RI/FS |
| SITE | 22 | HAPID REFUELING SITE | RI/FS |
| SITE | 23 | CAMP GEIGER AREA DUMP | RI/FS |
| ** MCB CAMP PENDLETON, CA (NAVY) | | | |
| SITE | 1 | PEST CONTROL WASHRACK DRAIN DITCH | RI/FS |
| SITE | 3 | MCAF DRAINAGE DITCH | RI/FS |
| SITE | 5 | FIRE FIGHTING DRILL FIELD | RI/FS |
| SITE | 6 | OPOO SCRAP YARD | RI/FS |
| SITE | 8 | LAS PULGAS LANDFILL | RI/FS |
| ** MCDEC QUANTICO, VA (NAVY) | | | |
| SITE | 1 | PESTICIDE BURIAL AREA (SITE 1) | RI/FS |
| SITE | 2 | OLD LANDFILL (SITE 4) | RI/FS |
| SITE | 3 | OLD BATCH PLANT (SITE 5) | RI/FS |
| SITE | 4 | RECENTLY CLOSED LANDFILL (SITE 7) | RI/FS |
| SITE | 5 | ARSENIC DISPOSAL AREA (SITE 17) | RI/FS |
| ** MCLB ALBANY, GA (NAVY) | | | |
| SITE | 1 | E. DISPOSAL AREA | RI/FS |

DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)

| Site Name | | Description | Project |
|-------------------------------------|----|-------------------------------------|---------|
| SITE | 2 | RUBBLE DISPOSAL AREA | RI/FS |
| SITE | 3 | W. DISPOSAL AREA | RI/FS |
| SITE | 4 | LONG-TERM LNDFL | RI/FS |
| SITE | 5 | IND. DISCHARGE DRAINAGE DITCH | RI/FS |
| SITE | 6 | PENTACHLOROPHENOL DIP TANK | RI/FS |
| SITE | 7 | CLEANING TANK BLDG 572 | RI/FS |
| ** MCLB BARSTOW, CA (NAVY) | | | |
| SITE | 1 | IND. WASTE DISPOSAL AREA | RI/FS |
| SITE | 2 | PESTICIDE STOR. & WASHOUT | RI/FS |
| SITE | 3 | FUEL DISPOSAL AREA | RI/FS |
| SITE | 4 | SLUDGE WASTE AREA, YERMO | RI/FS |
| SITE | 5 | INDUSTRIAL WASTE TREATMENT AREA | RI/FS |
| SITE | 6 | PCB STORAGE AREA | RI/FS |
| SITE | 7 | LOW LEVEL RADIOLOGICAL STORAGE AREA | RI/FS |
| SITE | 8 | CHEMICAL STORAGE AREA | RI/FS |
| ** NAB CORONADO, CA (NAVY) | | | |
| SITE | 1 | OLD REFUSE DISP/BURN AREA | RI/FS |
| SITE | 2 | SANDBLAST GRIT DISP. AREA | RI/FS |
| SITE | 3 | FIRE FIGHTING TRAINING AREA | RI/FS |
| SITE | 4 | OILED AREAS | RI/FS |
| ** NAEC LAKEHURST, NJ (NAVY) | | | |
| SITE | 1 | BLIMP CRASH SITE | RI/FS |
| SITE | 2 | RSTS TRACK 2 | RI/FS |
| SITE | 3 | DRAINAGE DITCH | RI/FS |
| SITE | 4 | DEADLOAD MAINTENANCE SHOP | RI/FS |
| SITE | 5 | ARRESTING ENGINE TRACK 2, BLDG 371 | RI/FS |
| SITE | 6 | HANGAR 2 DISPOSAL AREA | RI/FS |
| SITE | 7 | CATAPULT TEST FAC. | RI/FS |
| SITE | 8 | CATAPULT TEST STOR AREA | RI/FS |
| SITE | 9 | ARRESTING ENGINE TRACK, BLDG 529 | RI/FS |
| SITE | 10 | FUEL TRUCK STOR AREA | RI/FS |
| SITE | 11 | HANGAR 5 DISPOSAL AREA | RI/FS |
| SITE | 12 | FUEL STOR FAC 141 | RI/FS |
| SITE | 13 | FUEL FARM NO. 125 | RI/FS |
| SITE | 14 | OLD FIRE FIGHTING SCHOOL | RI/FS |
| SITE | 15 | BLDG 562 | RI/FS |
| SITE | 19 | NATTC FIRE FIGHTING TRAINING AREA | RI/FS |
| SITE | 20 | FUEL FARM NO 196 | RI/FS |
| SITE | 21 | EXCHANGE GAS STATION | RI/FS |
| SITE | 22 | SATS CATAPULT (7401 TEST SITE) | RI/FS |
| SITE | 23 | TETRAETHYL LEAD DISPOSAL SITE | RI/FS |
| SITE | 24 | JET CAR MAINTENANCE SHOP | RI/FS |
| SITE | 25 | JET BLAST DEFLECTOR | RI/FS |
| SITE | 26 | DISPOSAL AREA | RI/FS |
| SITE | 27 | CATAPULT TEST SITE 7419 | RI/FS |
| SITE | 28 | TEST DEPT DISPOSAL AREA | RI/FS |
| SITE | 29 | CONTRACTOR DISPOSAL AREA | RI/FS |
| SITE | 30 | RSTS SCRAP SITE | RI/FS |
| SITE | 31 | WEST FIELD HANGAR AREA | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|--|----|---------------------------------------|---------|
| SITE | 32 | ORIGINAL BASE LANDFILL | RI/FS |
| SITE | 33 | RSTS TRACK 4 RECOVERY END | RI/FS |
| SITE | 34 | SANITARY LANDFILL | RI/FS |
| SITE | 35 | RSTS LAUNCHING END | RI/FS |
| SITE | 36 | REFUELER REPAIR SHIP DRYWELL | RI/FS |
| SITE | 37 | PARACHUTE JUMP CIRCLE | RI/FS |
| SITE | 38 | HELICOPTER REFUELING AREA | RI/FS |
| SITE | 39 | HANGAR 1 DISPOSAL AREA | RI/FS |
| SITE | 40 | FUEL DISPOSAL AREA | RI/FS |
| SITE | 41 | OIL SKIMMING AND SLUDGE DISPOSAL AREA | RI/FS |
| SITE | 42 | POL DISPOSAL AT HANGAR 3 | RI/FS |
| SITE | 43 | SOIL STABILIZATION FIELD TEST | RI/FS |
| SITE | 44 | BASE LANDFILL | RI/FS |
| SITE | 45 | PCB STOR AND TESTING AREA | RI/FS |
| SITE | 46 | BOMARK SITE | RI/FS |
| ** NAPC TRENTON, NJ (NAVY) | | | |
| | | BAROMETRIC WELL | RI/FS |
| ** NAS AGANA, GU (NAVY) | | | |
| SITE | 1 | LNOFL 2 | RI/FS |
| SITE | 2 | NAVMAG-ROD FORMER DEMO RANGE | RI/FS |
| SITE | 3 | SANITARY LANDFILL | RI/FS |
| SITE | 4 | DRAINAGE BURN HOLDING POND | RI/FS |
| SITE | 5 | LNOFL 1 | RI/FS |
| ** NAS ALAMEDA, CA (NAVY) | | | |
| SITE | 1 | WEST BEACH LANDFILL | RI/FS |
| SITE | 2 | 1943,1956 DISPOSAL ARE | RI/FS |
| SITE | 3 | SEAPLANE LAGOON | RI/FS |
| SITE | 4 | AREA 97 | RI/FS |
| SITE | 5 | BLDG 301 AND 389 | RI/FS |
| SITE | 6 | CANS C-2 AREA | RI/FS |
| SITE | 7 | BLDG 360 | RI/FS |
| ** NAS BARBERS POINT, HI (NAVY) | | | |
| SITE | 1 | SANITARY LNOFL | RI/FS |
| SITE | 2 | CORAL SEA RD CORAL PIT | RI/FS |
| SITE | 3 | ORDY POND | RI/FS |
| ** NAS BRUNSWICK, ME (NAVY) | | | |
| SITE | 1 | LANDFILL ORION ST(NORTH) | RI/FS |
| SITE | 2 | LANDFILL ORION ST(SOUTH) | RI/FS |
| SITE | 3 | MW BURIAL AREA | RI/FS |
| SITE | 4 | ACID/CAUSTIC PIT | RI/FS |
| SITE | 5 | OIL ACID/CAUSTIC PIT | RI/FS |
| SITE | 6 | PERIMETER ROAD DISPOSAL SITE | RI/FS |
| SITE | 7 | NEPTUNE OR DISPOSAL SITE | RI/FS |
| ** NAS CECIL FIELD, FL (NAVY) | | | |
| SITE | 1 | OLD LNOFL | RI/FS |
| SITE | 2 | GREASE PITS | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|---|----|--|---------|
| SITE | 3 | DISPOSAL AREA NORTHWEST | RI/FS |
| SITE | 4 | OLD FIRE FIGHTING TRAINING AREA | RI/FS |
| SITE | 5 | HW/FIRE FIGHTING TRAINING AREA | RI/FS |
| SITE | 7 | GOLF COURSE PESTICIDE DISP. | RI/FS |
| SITE | 8 | AIMD SEEPAGE PIT | RI/FS |
| SITE | 10 | OIL SLUDGE DISP. PIT SW | RI/FS |
| SITE | 11 | RECENT LNDFL | RI/FS |
| SITE | 16 | OIL SLUDGE PIT | RI/FS |
| ** NAS CHASE FIELD, TX (NAVY) | | | |
| SITE | 1 | NW RUBBLE DISP. AREA | RI/FS |
| SITE | 2 | SE DISP. AREA | RI/FS |
| SITE | 3 | FIRE FIGHTING TRAINING AREA | RI/FS |
| SITE | 4 | OLD FIRE FIGHTING TRAINING AREA | RI/FS |
| ** NAS CORPUS CHRISTI, TX (NAVY) | | | |
| SITE | 1 | CCAD LIQUID WASTE DISP AREA | RI/FS |
| SITE | 2 | DPOO LNDFL | RI/FS |
| SITE | 3 | NORHT GATE DISPOSAL AREA | RI/FS |
| SITE | 4 | FUEL FARM 216 | RI/FS |
| ** NAS DALLAS, TX (NAVY) | | | |
| SITE | 1 | FORMER FIRE FIGHTING TRAINING AREA | RI/FS |
| SITE | 2 | RUBBLE LANDFILL | RI/FS |
| SITE | 3 | PCB LEAK | RI/FS |
| SITE | 4 | PAINT STRIPPING AREA | RI/FS |
| SITE | 5 | TANG AREA DRAINAGE DITCH | RI/FS |
| ** NAS JACKSONVILLE, FL (NAVY) | | | |
| SITE | 1 | JP-4 EXPLOSION FUEL FARM | RI/FS |
| SITE | 2 | HANGAR BUILDING 101 | RI/FS |
| SITE | 3 | OLD TEST CELL BLDG | RI/FS |
| SITE | 4 | BATTERY SHOP | RI/FS |
| SITE | 5 | SOLVENT AND PAINT SLUDGE | RI/FS |
| SITE | 6 | STORM SEWER DISCHARGE BLACK POINT | RI/FS |
| SITE | 7 | SHORELINE FILL | RI/FS |
| SITE | 8 | OLD DISPOSAL AREA | RI/FS |
| SITE | 9 | RADIUM PART WASTE DISPOSAL PIT | RI/FS |
| SITE | 10 | (UTHER) GLASS BEAD DISPOSAL AREA | RI/FS |
| SITE | 11 | (NFD) OIL POND AND LAND SPREADING AREA | RI/FS |
| SITE | 12 | OLD MAIN REGISTERED DISPOSAL AREA | RI/FS |
| SITE | 13 | RADIOACTIVE WASTE FILL AREA | RI/FS |
| SITE | 14 | PCB STORAGE | RI/FS |
| SITE | 15 | (NAS) PRESENT FIREFIGHTING TRAINING AREA | RI/FS |
| SITE | 15 | OLD GAS STATION | RI/FS |
| SITE | 15 | FIRE PIT | RI/FS |
| SITE | 16 | PINE TREE PLANTING | RI/FS |
| SITE | 16 | ORGANIC DISPOSAL AREA | RI/FS |
| SITE | 17 | OLD DRUM LOT | RI/FS |
| SITE | 18 | BASE LANDFILL | RI/FS |
| SITE | 19 | TRANSFORMER BURIED AREA | RI/FS |
| SITE | 20 | INDUSTRIAL WASTEWATER DISCHARGE | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|---|----|---------------------------------|---------|
| ** NAS KEY WEST, FL (NAVY) | | | |
| SITE | 1 | TRUMAN ANNEX DISP AREA | RI/FS |
| SITE | 2 | TRANSFORMER OIL DISP AREA | RI/FS |
| SITE | 3 | NORTH LANDFILL | RI/FS |
| SITE | 4 | SOUTH LNDFL | RI/FS |
| SITE | 5 | TANK FARM | RI/FS |
| SITE | 6 | FIRE FIGHTING TRAINING AREA | RI/FS |
| SITE | 7 | TRUMAN ANNEX DDT MIXING AREA | RI/FS |
| SITE | 8 | BOCA CHICA OPEN DISP AREA | RI/FS |
| SITE | 9 | BOCA CHICA DDT MIXING AREA | RI/FS |
| ** NAS KINGSVILLE, TX (NAVY) | | | |
| SITE | 1 | SEWAGE TREATMENT PLANT LNDFL | RI/FS |
| SITE | 3 | TRANS. MTR POOL | RI/FS |
| SITE | 5 | FIRE FIGHTING TRAINING AREA | RI/FS |
| SITE | 6 | LNDFL | RI/FS |
| SITE | 7 | WASTE POL/SOLVENT DISP. | RI/FS |
| SITE | 8 | AVGAS FUEL FARM-SOUTH FIELD | RI/FS |
| SITE | 10 | AVGAS FUEL FARM-NORTH FIELD | RI/FS |
| ** NAS LEMOORE, CA (NAVY) | | | |
| SITE | 1 | OPERATION AREA OPEN DITCH | RI/FS |
| SITE | 2 | FIRE FIGHTING SCHOOL | RI/FS |
| SITE | 3 | HOUSING AREA OPEN DITCH | RI/FS |
| SITE | 4 | LANDFILL | RI/FS |
| SITE | 5 | FIRE FIGHTING TRAINING FACILITY | RI/FS |
| SITE | 6 | BLDG 3 TRANSFORMER SPILL | RI/FS |
| SITE | 7 | BLDG 468 TRANSFORMER SPILL | RI/FS |
| SITE | 11 | BLDG 752 PEST. RINSE | RI/FS |
| SITE | 12 | BLDG 50 PEST RINSE | RI/FS |
| SITE | 13 | OLD FIRE TRAINING AREA | RI/FS |
| SITE | 14 | TRANSFORMER STORAGE AREA | RI/FS |
| ** NAS MIRAMAR, CA (NAVY) | | | |
| SITE | 1 | FUEL FARM OPERATING AREA | RI/FS |
| SITE | 2 | ROSE CANYON | RI/FS |
| SITE | 3 | FISH POND | RI/FS |
| SITE | 4 | SAN CLEMENTE CANYON DISPOSAL | RI/FS |
| SITE | 5 | FIRE FIGHTING DRILL FIELDS | RI/FS |
| ** NAS NEW ORLEANS, LA (NAVY) | | | |
| SITE | 8 | FUEL TANK STRIPPING BURN AREA | RI/FS |
| SITE | 9 | LNDFL AT B 704 | RI/FS |
| SITE | 20 | FIRE FIGHTING TRAINING AREA | RI/FS |
| ** NAS PATUXENT RIVER, MD (NAVY) | | | |
| SITE | 1 | TRANSFORMER STORAGE 8516 | RI/FS |
| SITE | 6 | SLUDGE AT FUEL FARM A/STREAM | RI/FS |
| SITE | 7 | HERMANELLE DROP SITE | RI/FS |
| SITE | 8 | POND SOUTH OF SUPPLY | RI/FS |
| SITE | 9 | FORMER SANITARY LANDFILL | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|-----------|----|------------------------------------|---------|
| SITE | 10 | OPDO SALVAGE YD | RI/FS |
| SITE | 11 | BLDG 114 DISCHARGES TO DRYWELL | RI/FS |
| SITE | 12 | SOLVENT SPILL BEHIND BLDG 114 | RI/FS |
| SITE | 13 | AREA SOUTH OF BLDG 665 | RI/FS |
| SITE | 15 | FISHING PT LNDFL | RI/FS |
| SITE | 16 | DISP. NEAR POND 1 | RI/FS |
| SITE | 17 | STOR. AREA FUEL FARM | RI/FS |
| SITE | 18 | B111 /110 WASH RACK DRAINS | RI/FS |
| SITE | 19 | PEST CONTROL B 841 | RI/FS |
| SITE | 20 | B 306/CARBONTETRACHLORIDE DISPOSAL | RI/FS |

**** NAS PENSACOLA, FL (NAVY)**

| | | | |
|------|----|-----------------------------------|-------|
| SITE | 1 | SAN. LNDFL | RI/FS |
| SITE | 2 | WATERFRONT SEDIMENTS | RI/FS |
| SITE | 3 | CRASH CREW TRAINING AREA | RI/FS |
| SITE | 4 | NAVY YARD DISPOSAL AREA | RI/FS |
| SITE | 5 | N. CHEVALIER FIELD DISPOSAL | RI/FS |
| SITE | 6 | PESTICIDE RINSEATE AREA | RI/FS |
| SITE | 7 | TRANSFORMER STOR. | RI/FS |
| SITE | 8 | FUEL FARM PIPELINE LEAK | RI/FS |
| SITE | 9 | SLUDGE DISPOSAL AT FUEL TANK | RI/FS |
| SITE | 10 | RFUELER REPAIR SHOP FUEL DISPOSAL | RI/FS |
| SITE | 11 | CHEVALIER FIELD PIPELINE LEAK | RI/FS |
| SITE | 12 | SUP DEPT OUTSIDE STOR | RI/FS |
| SITE | 13 | RADIAL DIAL SHOP SEWER | RI/FS |
| SITE | 14 | SOIL S. OF BLDG 3460 | RI/FS |
| SITE | 15 | BLDG 649/755 | RI/FS |
| SITE | 16 | BLDG 648 | RI/FS |
| SITE | 17 | IND. SLUDGE DRYING BEDS | RI/FS |
| SITE | 18 | WWTP PONDS | RI/FS |
| SITE | 19 | BLDG 3557 | RI/FS |

**** NAS WHIDBEY ISLAND, WA (NAVY)**

| | | | |
|------|----|----------------------------------|-------|
| SITE | 1 | WESERN HIGHLAND LANDFILL | RI/FS |
| SITE | 2 | 1969-1970 LANDFILL | RI/FS |
| SITE | 3 | WALKER BARN STORAGE AREA | RI/FS |
| SITE | 4 | HOFFMAN ROAD LANDFILL | RI/FS |
| SITE | 5 | CURRENT LANDFILL | RI/FS |
| SITE | 6 | FUEL FARM 3 | RI/FS |
| SITE | 7 | PESTICIDE RINSEATE DISPOSAL | RI/FS |
| SITE | 8 | RUNWAY DITCHES | RI/FS |
| SITE | 9 | OLD AULT FIELD COAL PILE | RI/FS |
| SITE | 10 | ALT FIELD NOSE HANGARS | RI/FS |
| SITE | 11 | FUEL TRUCK DEPOT | RI/FS |
| SITE | 12 | ALT FIELD SEWAGE CLARIFIER | RI/FS |
| SITE | 13 | BOILER PLANT OIL SPILL | RI/FS |
| SITE | 14 | HANGAR 5 | RI/FS |
| SITE | 16 | NW APRON AREA | RI/FS |
| SITE | 17 | PCP DIP TANK | RI/FS |
| SITE | 18 | BLDG 120 TRANSFORMER SERVICE AEA | RI/FS |
| SITE | 19 | ABANDON AULT FIELD OIL TANKS | RI/FS |
| SITE | 20 | 1966 FIRE SCHOOL | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | Description | Project |
|-----------|----------------------------------|---------|
| SITE 21 | CHAPEL FIRE SCHOOL | RI/FS |
| SITE 22 | CLOVER VALLEY ROAD FIRE SCHOOL | RI/FS |
| SITE 23 | RUNWAY FIRE SCHOOL | RI/FS |
| SITE 24 | BLDG 889 TRANSFORMER SERVICE | RI/FS |
| SITE 25 | RUNWAY DITCHES AFCCA | RI/FS |
| SITE 26 | FUEL FARM 2 | RI/FS |
| SITE 27 | FUEL FARM 1 | RI/FS |
| SITE 28 | ABANDONED SEAPLANE BASE OIL TANK | RI/FS |
| SITE 29 | SEAPLANE BASE, SEWAGE CLARIFIER | RI/FS |
| SITE 30 | AUTO SHOP | RI/FS |
| SITE 31 | SEAPLANE BASE COAL PILE | RI/FS |
| SITE 32 | BLDG 25&26 DISPOSAL AREA | RI/FS |
| SITE 33 | GAS TANK LEAK | RI/FS |
| SITE 34 | SEAPLANE BASE GAS STATION | RI/FS |
| SITE 35 | SEAPLANE NOSE HANGAR | RI/FS |
| SITE 36 | TCE TANK | RI/FS |
| SITE 37 | SALVAGE YARD | RI/FS |
| SITE 38 | SEAPLANE BASE LANDFILL | RI/FS |

**** NAS WHITING FIELD, FL (NAVY)**

| | | |
|---------|---------------------------------------|-------|
| SITE 1 | NW DISPOSAL AREA | RI/FS |
| SITE 2 | UNDERGROUND WASTE SOLVENT STOR AREA | RI/FS |
| SITE 3 | NORHT AVGAS TANK SLUDGE DISPOSAL AREA | RI/FS |
| SITE 4 | BATTERY ACID SEEPAGE PIT | RI/FS |
| SITE 5 | OPEN DISPOSAL AND BURNING AREA | RI/FS |
| SITE 6 | S. TRANSFORMER OIL DISPOSAL AREA | RI/FS |
| SITE 7 | S. AVGAS TANK SLUDGE DISPOSAL AREA | RI/FS |
| SITE 8 | AVGAS FUEL SPILL AREA | RI/FS |
| SITE 9 | WASTE FUEL DISPOSAL AREA | RI/FS |
| SITE 10 | SE OPEN DISPOSAL AREA A | RI/FS |
| SITE 11 | SE OPEN DISPOSAL AREA B | RI/FS |
| SITE 12 | TETRAETHYL LEAD DISPOSAL AREA | RI/FS |
| SITE 13 | LANDFILL | RI/FS |
| SITE 14 | SHORT TERM SANITARY LANDFILL | RI/FS |
| SITE 15 | SW LANDFILL | RI/FS |

**** MCSC PAXAMA CITY, FL (NAVY)**

| | | |
|--------|--------------------------------|-------|
| SITE 1 | ORIG. DISPOSAL SITE | RI/FS |
| SITE 2 | BURN AND LNDFL AREA | RI/FS |
| SITE 3 | OLD FIRE TRAINING AREA | RI/FS |
| SITE 4 | UNDERGROUND OIL CONTAINER AREA | RI/FS |
| SITE 5 | PAINT EQUIP CLEANING AREA | RI/FS |
| SITE 6 | BURN DISPOSAL AREA | RI/FS |
| SITE 8 | SOLVENT DISP BEHIND B40 | RI/FS |

**** NROF CUMBERLAND, MD (NAVY)**

| | | |
|--------|--|-------|
| SITE 1 | NORTHERN RIVERSIDE WASTE DISPOSAL SITE | RI/FS |
| SITE 2 | PREVIOUS BURNING GROUND | RI/FS |
| SITE 3 | PREVIOUS BURNING GROUND | RI/FS |
| SITE 4 | DEVELOPING SOLUTIONS DISPOSAL AREA | RI/FS |
| SITE 5 | INERT LANDFILL (NO ORDNANCE) | RI/FS |
| SITE 6 | SENSITIVITY TEST AREA SURFACE WATER | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|---|----|------------------------------------|---------|
| ** NIROP MINNEAPOLIS, MN (NAVY) | | | |
| SITE | 1 | WASTE DISPOSAL TRENCHES | RI/FS |
| SITE | 2 | WASTE DISPOSAL PITS | RI/FS |
| SITE | 3 | AREA BENEATH THE NIROP BLDG | RI/FS |
| ** NOS INDIAN HEAD, MD (NAVY) | | | |
| SITE | 1 | BLDG 731 X-RAY COOLING WATER | RI/FS |
| SITE | 5 | MERCURY DEPOSITS-BLAZZI PLANT | RI/FS |
| SITE | 8 | TOWN GUT | RI/FS |
| ** NS MAYPORT, FL (NAVY) | | | |
| SITE | 1 | LNDFL A | RI/FS |
| SITE | 2 | WASTE OIL PIT | RI/FS |
| SITE | 4 | FUEL SPILL AREA | RI/FS |
| SITE | 5 | MERC./OILY WASTE SPILL | RI/FS |
| SITE | 6 | LNDFL D | RI/FS |
| SITE | 8 | LNDFL E | RI/FS |
| SITE | 9 | LNDFL F | RI/FS |
| SITE | 14 | LNDFL B | RI/FS |
| ** NS ROOSEVELT ROADS, PR (NAVY) | | | |
| SITE | 1 | IRRNA/MAF-4 DISPOSAL SITE | RI/FS |
| SITE | 2 | OLD POWER PLANK, BLDG 38 | RI/FS |
| SITE | 3 | PEST CONTROL SHOP | RI/FS |
| SITE | 5 | QUEBRADA DISP SITE | RI/FS |
| SITE | 6 | MANGROVE DISP SITE | RI/FS |
| SITE | 7 | ARMY CREMATOR DISP AREA | RI/FS |
| SITE | 8 | LANGLEY DR DISP. AREA | RI/FS |
| SITE | 9 | DRONE WASHDOWN | RI/FS |
| SITE | 10 | STATION LANDFILL | RI/FS |
| SITE | 11 | PCB DISPOSAL DRY DOCK AREA | RI/FS |
| SITE | 12 | BLDG 25 | RI/FS |
| SITE | 13 | BLDG 145 | RI/FS |
| SITE | 14 | TWO WAY RD FUEL FARM | RI/FS |
| SITE | 15 | TANKS 210 TO 217 | RI/FS |
| SITE | 16 | EMSEN HONDA SHORELINE MAG. | RI/FS |
| SITE | 18 | SUBSTATION 2 | RI/FS |
| ** NSB BANGOR, WA (NAVY) | | | |
| SITE | 1 | MANCHESTER PCB CONT. | RI/FS |
| SITE | 2 | DEMOL WASTE DISP SITE | RI/FS |
| SITE | 3 | FORMER ORDNANCE BURNING | RI/FS |
| SITE | 4 | OLD CISTERN FILLED W/ GREEN LIQUID | RI/FS |
| SITE | 5 | BURIED PESTICIDES | RI/FS |
| SITE | 6 | DUNNAGE CANYON | RI/FS |
| SITE | 11 | MANCHESTER LEAD CONT | RI/FS |
| SITE | 12 | METALLURGY FAC RUBBLE | RI/FS |
| SITE | 17 | ECO TEST RANGE | RI/FS |
| SITE | 18 | FLORAL PT | RI/FS |
| SITE | 30 | OLD ACID PIT | RI/FS |
| SITE | 32 | DEMOL OPS WW DIS | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | Site # | Description | Project |
|---------------------------------------|--------|----------------------------------|---------|
| SITE | 35 | FORMER WW DISCHAR. | RVFS |
| SITE | 36 | GARBAGE AND ORDNANCE DISP. AREA | RVFS |
| ** NSB NEW LONDON, CT (NAVY) | | | |
| SITE | 1 | DPOO AREA | RVFS |
| SITE | 2 | AREA A LNOFL | RVFS |
| SITE | 3 | OVER-BANK DISPOSAL AREA | RVFS |
| SITE | 4 | OBDANE | RVFS |
| ** NSY MARE ISLAND, CA (NAVY) | | | |
| SITE | 1 | LANDFILL | RVFS |
| SITE | 2 | OIL SUMPS | RVFS |
| SITE | 3 | BERTHS 4 AND 5 | RVFS |
| SITE | 4 | 900 AREA | RVFS |
| SITE | 7 | CONCORD ANNEX | RVFS |
| SITE | 9 | SLUDGE PONDS | RVFS |
| SITE | 10 | LEAD OXIDE AREAS | RVFS |
| ** NSY PHILADELPHIA, PA (NAVY) | | | |
| SITE | 1 | TRANSFORMER STOR. AREA B 825 | RVFS |
| SITE | 2 | BLASTING GRIT AND DRUM DISP AREA | RVFS |
| SITE | 3 | CYLINDER DISP. AREA | RVFS |
| SITE | 4 | FUEL FARM | RVFS |
| SITE | 5 | SUBSTATION 82 TRANSF. OIL SPILL | RVFS |
| SITE | 7 | B 546-PCB TRANSFORMER SPILL | RVFS |
| ** NTC ORLANDO, FL (NAVY) | | | |
| SITE | 1 | NORTH FIELD LNOFL | RVFS |
| SITE | 3 | MCCOY LNOFL | RVFS |
| SITE | 6 | DPOO MCCOY ANNEX | RVFS |
| SITE | 8 | NTC PESTICIDE BLOG | RVFS |
| SITE | 9 | LAKE BALDWIN | RVFS |
| ** NUWES KEYPORT, WA (NAVY) | | | |
| SITE | 1 | LANDFILL | RVFS |
| SITE | 2 | NORTH END LANDFILL INDIAN ISLAND | RVFS |
| SITE | 9 | BURIED IMHOFF TANKS | RVFS |
| SITE | 10 | VAN METER REDISPOSAL | RVFS |
| SITE | 17 | NUWES LIBERTY BAY SHORELINE | RVFS |
| SITE | 21 | BLOG 86 FILL INDIAN ISLAND | RVFS |
| ** NWC CHINA LAKE, CA (NAVY) | | | |
| SITE | 1 | G1 EAST DISP AREA | RVFS |
| SITE | 3 | G-1 RANGE SEPTIC SYS | RVFS |
| SITE | 7 | PW PESTICIDE RUNSE AREA | RVFS |
| SITE | 12 | MINIDECK | RVFS |
| SITE | 13 | ARMITAGE FIELD | RVFS |
| SITE | 14 | ARMITAGE FIELD LEACH POND | RVFS |
| SITE | 15 | MICHELSON LAB DRAINAGE | RVFS |
| SITE | 16 | SHORT RD LNOFL | RVFS |
| SITE | 22 | OILY WASTE DISP AREA | RVFS |
| SITE | 27 | ER RANGE SEPTIC SYS | RVFS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|---|----|-------------------------------------|---------|
| SITE | 29 | R RANGE SEPTIC SYS | RI/FS |
| SITE | 31 | G-2 RANGE SEPTIC SYS | RI/FS |
| SITE | 32 | PILOT PLANT RD LANDFILL | RI/FS |
| SITE | 34 | NAF DISP. AREA | RI/FS |
| SITE | 40 | GOLF COURSE PESTICIDE RINSE | RI/FS |
| SITE | 41 | LNDFL | RI/FS |
| ** NWIRP DALLAS, TX (NAVY) | | | |
| SITE | 1 | E. DRAINAGE LAGOON | RI/FS |
| SITE | 2 | W. OIL BURNER & DRUM AREA | RI/FS |
| SITE | 4 | IND SLUDGE DRUM STOR. | RI/FS |
| SITE | 5 | WASTE POL SPILL | RI/FS |
| SITE | 6 | FORMER ACID NEUT. PIT | RI/FS |
| SITE | 7 | IWC PIPELINE LEAK | RI/FS |
| SITE | 8 | FORMER REFUSE BURN PIT | RI/FS |
| SITE | 9 | FIREBRICK BURIAL SITE | RI/FS |
| SITE | 10 | W. DRAINAGE LAGOON | RI/FS |
| ** NWS CHARLESTON, SC (NAVY) | | | |
| SITE | 1 | OLD SOUTH SIDE PESTICIDE RINSE AREA | RI/FS |
| SITE | 3 | SOUTH SIDE LNDFL | RI/FS |
| SITE | 4 | NORTH SIDE LNDFL | RI/FS |
| SITE | 5 | NORTH SIDE BURN AREA | RI/FS |
| SITE | 6 | S. ANNEX WASTE DISPOSAL AREA | RI/FS |
| SITE | 7 | S. ANNEX MUNITIONS DISPOSAL | RI/FS |
| SITE | 8 | PCP DIP TANK AT BLDG 88 | RI/FS |
| ** NWS CONCORD, CA (NAVY) | | | |
| SITE | 1 | TIDAL AREA LANDFILL | RI/FS |
| SITE | 2 | COKE PILE SITE | RI/FS |
| SITE | 3 | BURNING AREA | RI/FS |
| SITE | 4 | KINNE BLVD WELLS | RI/FS |
| SITE | 5 | BLACK PIT AT RED ROCK | RI/FS |
| SITE | 6 | K 2 AREA | RI/FS |
| SITE | 9 | G 1 AREA | RI/FS |
| SITE | 11 | R AREA DISPOSAL SITE | RI/FS |
| SITE | 13 | KLN SITE | RI/FS |
| SITE | 14 | ALLIED SITE A | RI/FS |
| SITE | 16 | ALLIED SITE B | RI/FS |
| SITE | 25 | FROID AND TAYLOR RD DISPOSAL | RI/FS |
| SITE | 26 | WOOD HOGGER | RI/FS |
| ** NWS EARLE COLTS NECK, NJ (NAVY) | | | |
| SITE | 1 | ORDNANCE DEMILITARIZATION SITE | RI/FS |
| SITE | 2 | LANDFILL SW OF "F" | RI/FS |
| SITE | 3 | LANDFILL WEST OF "D" | RI/FS |
| SITE | 4 | LANDFILL WEST OF ARMY BRIGADE | RI/FS |
| SITE | 5 | UNNAMED TRIBUTORS | RI/FS |
| ** NWS SEAL BEACH, CA (NAVY) | | | |
| SITE | 1 | WW SETTLING POND | RI/FS |
| SITE | 2 | OIL ON ROADS | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|--------------------------------------|----|--------------------------------|---------|
| SITE | 4 | BATTERY SHOP DRAINAGE | RI/FS |
| SITE | 6 | OIL ISLAND | RI/FS |
| SITE | 7 | BLDG 437 QUENCH WATER DISPOSAL | RI/FS |
| SITE | 19 | EVAP. POND | RI/FS |
| SITE | 19 | BLDG 241 DISP. PIT | RI/FS |
| SITE | 22 | EXPLOSIVES BURNING GROUND | RI/FS |
| SITE | 24 | STATION LANDFILL | RI/FS |
| ** NWSC CRANE, IN (NAVY) | | | |
| SITE | 1 | MINE FILL A AND B | RI/FS |
| SITE | 2 | BATTERY SHOP | RI/FS |
| SITE | 3 | BURNING PIT | RI/FS |
| SITE | 4 | DEMOLITION AREA | RI/FS |
| SITE | 5 | ORDNANCE BURNING GROUNDS | RI/FS |
| SITE | 7 | DYE BURIAL GROUNDS | RI/FS |
| SITE | 8 | LOAD AND FILL AREA | RI/FS |
| SITE | 9 | CAST HIGH EXPLOSIVES FILL | RI/FS |
| SITE | 10 | LOAD AND FILL POND | RI/FS |
| SITE | 12 | MCCORMISH GROVE | RI/FS |
| SITE | 13 | PESTICIDE SHOP 8-2189 | RI/FS |
| SITE | 14 | ROADS AND GROUNDS AREA | RI/FS |
| SITE | 15 | ROCKEYE | RI/FS |
| ** PMTC POINT MUGU, CA (NAVY) | | | |
| SITE | 1 | OLD SHOPS AREA | RI/FS |
| SITE | 2 | PUBLIC WORKS STOR YARD | RI/FS |
| SITE | 3 | OLD "S AREA" SHOPS | RI/FS |
| SITE | 4 | BLDG 311 YARD | RI/FS |
| SITE | 5 | ELECTRIC SUBSTATION 680 | RI/FS |
| SITE | 6 | MAIN BASE FIRE SCHOOL | RI/FS |
| SITE | 7 | LAGOON AND DRAINAGE DITCHES | RI/FS |
| SITE | 8 | LAGOON LANDFILL | RI/FS |
| SITE | 11 | FUEL FARM | RI/FS |
| ** PWC GUAM, GU (NAVY) | | | |
| SITE | 2 | PCB TRANSFORMER FILTER AREA | RI/FS |
| ** PWC NORFOLK, VA (NAVY) | | | |
| SITE | 4 | P-71 TRANSFORMER STORAGE AREA | RI/FS |

AIR FORCE

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|--|----|------------------------------------|---------|
| ** AFP NO.36, EVANDALE, OH (AF) | | | |
| SITE | 1 | UNDERGROUND FUEL LEAK NW OF BLDG B | RA |
| SITE | 2 | FUEL SPILL | RA |
| ** AFP NO.38, NY (AF) | | | |
| SITE | 1 | SALVAGE YARD | RI/FS |
| SITE | 2 | WASTE SITE 1 | RI |
| SITE | 3 | WASTE SITE 2 | RI |
| SITE | 4 | WASTE SITE 3 | RI |
| SITE | 5 | WASTE SITE 4 | RI/FS |
| SITE | 6 | HAZARDOUS WASTE POND | RI |
| SITE | 7 | DRAINAGE DITCH | RI |
| SITE | 8 | DAM | RI |
| ** AFP NO.4, FT. WORTH, TX (AF) | | | |
| SITE | 1 | LANDFILL 1 | RA |
| SITE | 2 | LANDFILL 2 | RA |
| SITE | 3 | LANDFILL 3 | RA |
| SITE | 4 | LANDFILL 4 | RA |
| SITE | 5 | FDTA 2 | RA |
| SITE | 6 | FDTA 3 | RA |
| SITE | 7 | FDTA 4 | RA |
| SITE | 8 | FDTA 5 | RA |
| SITE | 9 | FDTA 6 | RA |
| SITE | 10 | CHROME PIT 1 | RA |
| SITE | 11 | CHROME PIT 2 | RA |
| SITE | 12 | CHROME PIT 3 | RA |
| SITE | 13 | DYE PITS | RA |
| SITE | 14 | FUEL SATURATED AREA 1 | RA |
| SITE | 15 | FUEL SATURATED AREA 2 | RA |
| SITE | 16 | FUEL SATURATED AREA 3 | RA |
| SITE | 17 | FORMER FUEL STORAGE | RA |
| SITE | 18 | SOLVENT LINES | RA |
| SITE | 19 | NARF AREA | RA |
| SITE | 20 | WASTEWATER COLLECTION BASINS | RA |
| ** AFP NO.4, FT.WORTH, TX (AF) | | | |
| SITE | 21 | WEST COMPASS ROSE | RA |
| SITE | 22 | "WINDOW" EAST CORNER OF BASE | RA |
| ** AFP NO.44, AZ (AF) | | | |
| SITE | 1 | FORMER DISPOSAL TRENCHES | RA |
| SITE | 2 | FORMER BURN/DISPOSAL PIT | RA |
| SITE | 3 | FORMER WASTE DISPOSAL PITS | RA |
| SITE | 4 | FORMER WASTE WATER PONDS | RA |
| SITE | 5 | FORMER SLUDGE DRYING | RA |
| SITE | 6 | UNLINED DITCHES | RA |
| SITE | 7 | NORTH FIRE TRAINING AREA | RA |
| SITE | 8 | SOUTH FIRE TRAINING AREA | RA |
| SITE | 9 | SUBSURFACE PLUME | RA |
| SITE | 10 | WEST FIRE TRAINING AREA | RA |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|--|----|---------------------------------------|---------|
| SITE | 11 | DIESEL TANK LEAK | RA |
| SITE | 14 | WASTE OIL SPREADING | RA |
| ** AFP NO.59, JOHNSON CITY, NY (AF) | | | |
| SITE | 1 | SOUTHSIDE (Z) | RI |
| SITE | 2 | ZONE 1 DRUM STORAGE AREA | RI |
| SITE | 3 | CHOCANUT CREEK | RI |
| ** AFP PJKS WATERTON, CO (AF) | | | |
| SITE | 1 | SUSPECTED LANDFILL | RI |
| SITE | 2 | DRAINAGE FLUMES | RI |
| SITE | 3 | T-8A CONTAMINATION POND | RI |
| SITE | 4 | EPL BLDG T-6 | RI |
| SITE | 5 | HYDRAZINE SPILL | RI |
| SITE | 6 | DEISEL TANK T-23 | RI |
| SITE | 7 | D-1 LANDFILL | RI |
| SITE | 8 | TEST FAC. STORAGE | RI |
| SITE | 9 | NO. 6 DIESEL FUEL BELOW D-1 | RI |
| ** ALASKAN DEWLINE, AK (AF) | | | |
| SITE | 1 | BAR-M 1 | RI |
| SITE | 2 | BAR M 2 | RI |
| SITE | 3 | BAR M 3 | RI |
| SITE | 4 | BAR M 4 | RI |
| SITE | 8 | BAR M 8 | RI |
| SITE | 9 | BAR M 9 | RI |
| SITE | 12 | BAR M 12 | RI |
| SITE | 13 | POW-3 | RI |
| SITE | 16 | POW-Z 16 | RI |
| SITE | 17 | POW-Z 17 | RI |
| SITE | 20 | POW-Z 20 | RI |
| SITE | 25 | POW-1 25 | RI |
| SITE | 28 | POW-1 28 | RI |
| SITE | 29 | POW-1 29 | RI |
| SITE | 31 | POW-1 31 | RI |
| SITE | 32 | POW-1 32 | RI |
| SITE | 37 | LIZ-3 37 | RI |
| SITE | 38 | LIZ-3 38 | RI |
| SITE | 39 | LIZ-3 39 | RI |
| SITE | 40 | LIZ-2 40 | RI |
| SITE | 43 | LIZ-2 43 | RI |
| SITE | 44 | LIZ-2 44 | RI |
| ** ALTUS AFB, OK (AF) | | | |
| SITE | 1 | INDUSTRIAL WASTE LAGOON(AGE WASHRACK) | RI |
| SITE | 2 | FPA 1 | RI |
| SITE | 3 | AIRCRAFT WASHRACK POND | RI |
| SITE | 5 | FTA 2 | RI |
| SITE | 6 | FTA 3 | RI |
| SITE | 7 | FTA4 | RI |
| SITE | 8 | LF 1 | RI |
| SITE | 9 | LF 2 | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|---------------------------------|----|---|---------|
| SITE | 10 | LF 3 | RI |
| ** ANDERSEN AFB, GU (AF) | | | |
| SITE | 1 | SITE 1 CHEMICAL DISPOSAL | RI |
| SITE | 2 | RMW CENTRAL SOIL | RI |
| SITE | 3 | DRUM STORAGE AREA | RI |
| SITE | 4 | SITE 2 CHEMICAL DISPOSAL | RI |
| SITE | 5 | SITE 3 CHEMICAL DISPOSAL | RI |
| SITE | 6 | SITE 4 CHEMICAL DISPOSAL | RI |
| SITE | 7 | DRAINAGE STORAGE AREA 2 | RI |
| SITE | 8 | HAZARDOUS WASTE STORAGE AREA 1 | RI |
| SITE | 9 | FTA 1 | RI |
| SITE | 10 | FIREFIGHTER TRAINING AREA 2 | RI |
| SITE | 11 | LANDFILL 1 | RI |
| SITE | 12 | LANDFILL 10 | RI |
| SITE | 13 | LANDFILL 13 | RI |
| SITE | 14 | LANDFILL 16 | RI |
| SITE | 15 | LANDFILL 2 | RI |
| SITE | 16 | LANDFILL 22 | RI |
| SITE | 17 | LANDFILL 25 | RI |
| SITE | 18 | LANDFILL 3 | RI |
| SITE | 20 | ZONE 1 STORMWATER DRAINAGE SYSTEM | RI |
| SITE | 21 | ZONE 2 STORMWATER DRAINAGE SYSTEM | RI |
| SITE | 23 | ZONE 3 STORMWATER DRAINAGE SYSTEM | RI |
| ** ANDREWS AFB, MD (AF) | | | |
| SITE | 1 | FPA 1 | RI |
| SITE | 2 | FPA 2 | RI |
| SITE | 3 | FT-4 | RI |
| SITE | 4 | SP-2 | RI |
| SITE | 5 | D-1 | RI |
| SITE | 6 | D-3 | RI |
| SITE | 7 | SP-5 | RI |
| SITE | 8 | DP-1 | RI |
| SITE | 9 | SP-4 | RI |
| SITE | 10 | SP-3 | RI |
| SITE | 11 | WAP-1 | RI |
| SITE | 12 | SP-6 | RI |
| SITE | 13 | D-4 | RI |
| SITE | 14 | SP-8 | RI |
| ** ARNOLD AFB, TN (AF) | | | |
| SITE | 1 | LANDFILL 2 LEACHATE PIT 2 | RI/RD |
| SITE | 2 | J-4 RETENTION RESVR AREA SURFACE DRAINAGE | RI |
| SITE | 3 | LANDFILL 4 | RI |
| SITE | 4 | SURFACE DRAINAGE BRADLEY | RI |
| SITE | 5 | SURFACE DRAINAGE ROLLINS | RI |
| SITE | 6 | CAMP FORREST WATER TREATMENT PLANT | RI |
| SITE | 7 | AEDC TESTING AREA | RI |
| SITE | 8 | LEACHING PIT NUMBER 1 | RI |
| SITE | 9 | SURFACE DRAINAGE BRUMALOW | RI |
| SITE | 10 | PROTECTION AREA 2/BURN AREA 2/LF 1 | RI/RA |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|-----------------------------------|----|--|---------|
| SITE | 11 | CHEMICAL TREATMENT POND | RI |
| SITE | 12 | RETENTION LEACH/BURN AREA | RI |
| SITE | 13 | FPTA 1 | RI |
| SITE | 14 | SURFACE DRAINAGE CRUMPTON | RI |
| SITE | 15 | PEF BURN/BURIAL AREA | RI |
| SITE | 16 | BERYLLIUM LEACHING PIT | RI |
| SITE | 17 | BURN AREA 2 | RI |
| ** BEALE AFB, CA (AF) | | | |
| SITE | 1 | DISCHARGE AREA 3 | RI |
| SITE | 2 | LANDFILL 3 | RI |
| SITE | 3 | DISCHARGE AREA 1 | RI |
| SITE | 4 | PHOTO WWTP | RI |
| SITE | 5 | PHOTO WASTE INJ. WELL | RI |
| SITE | 6 | FPTA 1&2 | RI |
| SITE | 7 | BATTERY SHOP DRY WELL | RI |
| SITE | 8 | DISCHARGE AREA 3 | RI |
| SITE | 9 | LANDFILL 2 | RI |
| SITE | 10 | DISCHARGE AREA 4 | RI |
| SITE | 11 | DISCHARGE AREA 6 | RI |
| SITE | 12 | DISCHARGE AREA 9 | RI |
| SITE | 13 | DISCHARGE AREA 5 | RI |
| SITE | 14 | DISCHARGE AREA 7 | RI |
| SITE | 15 | DISCHARGE AREA 10 | RI |
| SITE | 16 | LANDFILL 1 | RI |
| SITE | 17 | ORDINANCE DISPOSAL | RI |
| SITE | 18 | BEST SLOUGH | RI |
| SITE | 19 | POL TANK FARM | RI |
| ** BERGSTROM AFB, TX (AF) | | | |
| SITE | 1 | LANDFILL 3 | RI |
| SITE | 2 | LANDFILL 4 | RI |
| SITE | 3 | FTA 23 | RI/FS |
| SITE | 4 | LANDFILL 5 | RI |
| SITE | 5 | LANDFILL 6 | RI |
| SITE | 6 | LANDFILL 7 | RI |
| SITE | 7 | JP-4 SPILL/OPEN PIPELINE | RI |
| SITE | 8 | ROAD OILING | RI |
| SITE | 9 | MOGAS SPILL AT MOTOR POOL | RI |
| SITE | 10 | SOUTH FORK DRAINAGE DITCH | RI |
| ** BIRMINGHAM ANG, AL (AF) | | | |
| SITE | 1 | S 1 | RI/FS |
| SITE | 2 | S 2 | RI/FS |
| SITE | 3 | S 3 | RI/FS |
| SITE | 4 | S 4 | RI/FS |
| ** BOISE, ID (AF) | | | |
| SITE | 1 | FIRE TRAINING AREA NO. 1 | RI/FS |
| SITE | 2 | FIRE TRAINING AREA NO. 2 | RI/FS |
| SITE | 3 | FORMER FENCE POST PRESERVING OPERATION | RI/FS |
| SITE | 4 | TAR PIT AREA | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|-----------------------------------|----|--------------------------------------|---------|
| ** BROOKS, TX (AF) | | | |
| SITE | 1 | PCB TRANSFORMER OIL CONTAM. BLDG 100 | RA |
| ** BUCKLEY ANG, CO (AF) | | | |
| SITE | 1 | FIRE TRAINING AREA NO. 1 | RI/FS |
| SITE | 2 | FIRE TRAINING AREA NO. 2 | RI/FS |
| SITE | 3 | FIRE TRAINING AREA NO. 3 | RI/FS |
| SITE | 4 | FIRE TRAINING SITE 5 | RI/FS |
| SITE | 5 | JP-4 SUSPECTED UNDERGROUND LINE LEAK | RI/RA |
| SITE | 6 | BASE DUMP/IN A ZONE W/OIL PIT | RI/FS |
| ** BYRD ANG, VA (AF) | | | |
| SITE | 1 | S 1 | RI/FS |
| SITE | 2 | S 2 | RI/FS |
| SITE | 3 | S 3 | RI/FS |
| SITE | 4 | S 4 | RI/FS |
| SITE | 5 | S 5 | RI/FS |
| ** CAMPION LRRS, AK (AF) | | | |
| SITE | 1 | LANDFILL 1 | RI/RA |
| SITE | 2 | LANDFILL 2 | RI/RA |
| SITE | 3 | SPILL 1 | RI/RA |
| SITE | 4 | LRRS | RI/RA |
| SITE | 5 | WASTE ACCUMULATION 1 | RI/RA |
| SITE | 6 | WASTE ACCUMULATION 2 | RI/RA |
| SITE | 7 | WHITE ALICE SITE | RI/RA |
| ** CANNON AFB, NM (AF) | | | |
| SITE | 1 | ENTOMOLOGY RINSE AREA | RI |
| ** CAPE CANAVERAL, FL (AF) | | | |
| SITE | 1 | LANDFILL 1 | RI |
| SITE | 2 | LANDFILL 2 | RI |
| SITE | 3 | CHEMICAL DISPOSAL 9 | RI |
| SITE | 4 | CHEMICAL DISPOSAL 6 | RI |
| SITE | 5 | CHEMICAL DISPOSAL 7 | RI |
| SITE | 6 | CHEMICAL DISPOSAL 2 | RI |
| SITE | 7 | CHEMICAL DISPOSAL 12 | RI |
| SITE | 8 | FUEL SPILL | RI |
| SITE | 9 | FDTA 1 | RI |
| SITE | 10 | FDTA 2 | RI |
| ** CAPE NEWENHAM, AK (AF) | | | |
| SITE | 1 | WASTE ACCUMULATION AREA 2 | RA |
| SITE | 3 | DUMP AREA | RA |
| SITE | 4 | ROAD OILING | RA |
| SITE | 5 | WASTE ACCUMULATION 3 | RA |
| SITE | 6 | LANDFILL 1 | RA |
| SITE | 7 | WHITE ALICE SITE | RA |
| ** CASTLE AFB, CA (AF) | | | |
| SITE | 1 | TCE | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | Site No. | Description | Project |
|-----------|----------|-----------------------------|---------|
| SITE | 2 | LF 1 | RI/RA |
| SITE | 3 | FPTA 1 | RI |
| SITE | 4 | FUEL SPILL 1 | RI |
| SITE | 5 | FUEL SPILL 4 | RI |
| SITE | 6 | FPTA 2 | RI |
| SITE | 7 | TCE SITE 5 | RI |
| SITE | 8 | TCE SITE 7 | RI |
| SITE | 9 | FUEL SPILL 2&3 | RI |
| SITE | 10 | FPTA 3 | RI |
| SITE | 11 | LANDFILL 2 | RI |
| SITE | 12 | LANDFILL 3 | RI |
| SITE | 13 | LANDFILL 4 | RI |
| SITE | 14 | LANDFILL 5 | RI |
| SITE | 15 | DISCHARGE AREA 1 | RI/RA |
| SITE | 16 | DISCHARGE AREA 2 | RI |
| SITE | 16 | DISCHARGE AREA 3 | RI |
| SITE | 17 | DISCHARGE AREA 4 | RI/RA |
| SITE | 18 | DISCHARGE AREA 5 | RI |
| SITE | 19 | DISCHARGE AREA 6 | RI |
| SITE | 20 | DISCHARGE AREA 7 | RI |
| SITE | 21 | DISCHARGE AREA 8 | RI/RA |
| SITE | 22 | PCB SPILLS 1,2,AND 3 | RI |
| SITE | 23 | PCB SPILL 4 | RI |
| SITE | 24 | PCB SPILL 5 | RI |
| SITE | 25 | PCB SPILL 6 | RI |
| SITE | 26 | PCB SPILL 7 | RI |
| SITE | 27 | PCB SPILL 8 | RI |
| SITE | 28 | TCE SITE 1 | RI |
| SITE | 29 | CHEMICAL DISPOSAL PIT NO. 4 | RI |

**** CHANUTE AFB, IL (AF)**

| | | | |
|------|----|---------------------|----|
| SITE | 1 | LANDFILL 1 | FS |
| SITE | 2 | LANDFILL 2 | FS |
| SITE | 3 | SLUDGE PIT BLDG 932 | FS |
| SITE | 4 | FPTA 1 | FS |
| SITE | 5 | FPTA 2 | FS |
| SITE | 6 | LANDFILL 3 | FS |
| SITE | 7 | LANDFILL 4 | FS |
| SITE | 8 | BLDG 2306 | FS |
| SITE | 9 | BLDG 505 | FS |
| SITE | 10 | BLDG 937 | FS |
| SITE | 11 | BLDG 502 | FS |
| SITE | 12 | BLDG 760 | FS |
| SITE | 13 | BLDG 51 | FS |
| SITE | 14 | BLDG 349 | FS |
| SITE | 15 | BLDG 53 | FS |

**** CHARLESTON AFB, SC (AF)**

| | | | |
|------|----|---------------------|----|
| SITE | 2 | CONTAMINATED LAGOON | RA |
| SITE | 20 | BURIED AREA | RA |

**** CLEAR AFB, AK (AF)**

| | | | |
|------|---|---------------|-----|
| SITE | 1 | PAST LANDFILL | LTM |
|------|---|---------------|-----|

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|---------------------------------------|----|--|---------|
| SITE | 2 | PAST LANDFILL | LTM |
| SITE | 3 | CURRENT LANDFILL | LTM |
| SITE | 4 | #4 LANDFILL PRIOR TI 1959 | LTM |
| SITE | 5 | COAL STORAGE | LTM |
| SITE | 6 | LEACHATE FIELD SEPTIC TANK | LTM |
| SITE | 7 | FUEL SPILL | LTM |
| SITE | 8 | STORAGE TANKS-LUST | LTM |
| SITE | 10 | RADIOACTIVE MATERIAL STORAGE YARD | LTM |
| SITE | 11 | FOTA | LTM |
| SITE | 13 | PARTIALLY FILLED DRUMS | LTM |
| SITE | 14 | CONSTRUCTION CAMP DISPOSAL AREA | LTM |
| ** COLD BAY LRRS, AK (AF) | | | |
| SITE | 1 | SPILL | RI |
| SITE | 2 | LANDFILL | RI |
| SITE | 3 | ROAD OILING | RI |
| SITE | 4 | LRR | RI |
| ** DANNELLY FIELD ANG, AL (AF) | | | |
| SITE | 1 | S 1 | RI/FS |
| SITE | 2 | S 2 | RI/FS |
| SITE | 3 | S 3 | RI/FS |
| SITE | 4 | S 4 | RI/FS |
| SITE | 5 | S 5 | RI/FS |
| ** DAVIS MONTHAN AFB, AZ (AF) | | | |
| SITE | 1 | FLUSH FARM DRAINAGE DITCH | RI |
| ** DES MONES ANG, IA (AF) | | | |
| SITE | 1 | OLD FITE TRAINING AREA | RI |
| SITE | 2 | NEW FIRE TRAINING AREA & NO. RUNWAY DRAI | RI |
| SITE | 3 | FACILITY 105 VEH. MAINT. FUEL TANK | RI |
| SITE | 5 | VEHICLE MAINT. FUEL TANK EXCAVATION | RI |
| ** DOVER AFB, DE (AF) | | | |
| SITE | 1 | DD-1 | RA |
| SITE | 2 | T-1 | RA |
| SITE | 4 | D-4 | RA |
| ** DULUTH IAP, MN (AF) | | | |
| SITE | 1 | RD-1 LOW LEVEL RADIOACTIVE WASTE | RI |
| SITE | 2 | #5 | RI |
| SITE | 3 | #6 | RI |
| SITE | 4 | #7 | RI |
| SITE | 5 | #9 | RI |
| SITE | 6 | S-2 DPOO STORAGE AREA C | RI |
| ** DYESS, TX (AF) | | | |
| SITE | 1 | UNDERGROUND RAILROAD TANK CAR | RA |
| ** EDWARDS AFB, CA (AF) | | | |
| SITE | 1 | TRENCHES AND PITS | RA |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | Site No. | Description | Project |
|-----------|----------|---------------------------------------|---------|
| SITE | 2 | BLDG 1404 LEAKING FUEL TANKS | RI/FS |
| SITE | 3 | BLDG 1928 | RI/FS |
| SITE | 14 | MAIN BASE TOXIC WASTE DISPOSAL | RI/RA |
| SITE | 17 | ABANDONED MAIN BASE SANITARY LANDFILL | RI/RA |
| SITE | 18 | ACTIVE MAIN BASE SANITARY LANDFILL | RI/RA |
| SITE | 19 | SOUTH BASE WASTE POL STORAGE PIT | RI/RA |
| SITE | 20 | BERYLLIUM CONTAMINATED EARTH PILE | RI |
| SITE | 21 | INDUSTRIAL WASTE POND | RI |
| SITE | 21 | NPL AREA (ROCKETDYNE AREA) | RI |
| SITE | 22 | RPL SANITARY LANDFILL | RI |
| SITE | 23 | FPTA | RI |
| SITE | 24 | SOUTH BAE AREA | RI |
| SITE | 25 | JP 4 FUEL LINE | RI |
| SITE | 26 | BLDG 1836 | RI |
| SITE | 28 | DRUM STORAGE SUBSITE 1B | RI |
| SITE | 28 | ACID PIT SUBSITE 1C | RI |
| SITE | 30 | DRUM TRECHES SUBSITE 1D | RI |
| SITE | 31 | DEBRIS DUMP SUBSITE 1E | RI |
| SITE | 32 | BLDG 1062 UNDERGROUND MOGAS STORAGE | RI |
| SITE | 33 | ABANDONED TANKS | RI |

**** EGLIN AFB, FL (AF)**

| | | | |
|------|----|-----------------------------------|-------|
| SITE | 1 | A 20 | RI |
| SITE | 2 | O9 | RI |
| SITE | 3 | T3 | RI/RA |
| SITE | 4 | HERD FACILITY | RI |
| SITE | 5 | HOBBY SHOP | RI |
| SITE | 6 | FIRE TRAINING AREA | RI |
| SITE | 7 | FIRE TRAINING AREA DUKE | RI |
| SITE | 8 | FIRE TRAINING AREA EGLIN FIELD | RI |
| SITE | 9 | MOTOR POOL CONTAMINATION | RI |
| SITE | 10 | HURLBURT FIELD SANITARY LANDFILL | RI |
| SITE | 11 | T1 HERBICIDE TEST GRID | RI |
| SITE | 12 | D 1 EGLIN MAIN LANDFILL | RI |
| SITE | 13 | D 2 EGLIN MAIN LANDFILL | RI |
| SITE | 14 | D 3 EGLIN MAIN LANDFILL | RI |
| SITE | 15 | FIELD 2 NORTH LANDFILL | RI |
| SITE | 16 | D 17 FIELD 2 DRUM DISPOSAL AREA | RI |
| SITE | 17 | D 4 DISPOSAL PIT NEAR SKEET RANGE | RI |
| SITE | 18 | A 19 DRUM DISPOSAL AREA | RI |
| SITE | 19 | RECIEVER AREA LANDFILL | RI |
| SITE | 20 | D 18 LANDFILL | RI |
| SITE | 21 | D 26 LANDFILL | RI |
| SITE | 22 | D 29 LANDFILL | RI |
| SITE | 23 | D 30 LANDFILL | RI |
| SITE | 24 | D 31 LANDFILL | RI |
| SITE | 25 | D 32 LANDFILL | RI |

**** EIELSON AFB, AK (AF)**

| | | | |
|------|---|-----------------------|----|
| SITE | 1 | ORIG BASE LANDFILL | RI |
| SITE | 2 | OLD BASE LANDFILL | RI |
| SITE | 3 | CURRENT BASE LANDFILL | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|---------------------------|----|--|---------|
| SITE | 4 | FDTA (PAST) | RI |
| SITE | 5 | FDTA (PRESENT) | RI |
| SITE | 6 | E-2 POL STOR. | RI |
| SITE | 8 | FUEL SATURATED AREA | RI |
| SITE | 9 | E-4 DIESEL FUEL SPILL | RI |
| SITE | 10 | MULTIPURPOSE FUEL LINE | RI |
| SITE | 11 | MOGAS FUEL SPILL | RI |
| SITE | 13 | CANOL PIPELINE SPILL | RI |
| SITE | 14 | FUEL SATURATED AREA, OLD BOILER | RI |
| SITE | 15 | JP-4 FUEL LINE SPILL | RI |
| SITE | 16 | REFUELING LOOP | RI |
| SITE | 17 | SEWAGE TREATMENT SPILL POND | RI |
| SITE | 18 | ASPHALT MIXING AREA | RI |
| SITE | 19 | DRUM STORAGE SITE, ASPHALT MIXING AREA | RI |
| SITE | 20 | WASTE POL PIT | RI |
| SITE | 21 | ASPHALT LAKE | RI/RA |
| SITE | 22 | AUTO HOBBY SHOP | RI |
| SITE | 23 | OLD ARMY EOD AREA | RI |
| SITE | 24 | OLD ARMY LNDFL | RI/RA |
| SITE | 25 | OLD LNDFL | RI |
| SITE | 26 | E-2 RAILROAD JP-4 SPILL | RI |
| SITE | 27 | OILING QUARRY RD | RI |
| SITE | 28 | DRUM STORAGE ASPHALT MIXING | RI |
| SITE | 29 | OILING IND. DR | RI |
| SITE | 32 | OILING MANCHU RD | RI |
| SITE | 34 | OILING GRAVEL HAUL RD | RI |
| SITE | 35 | E-6 FUEL TANK SLUDGE | RI |
| SITE | 36 | E-10 FUEL TANK SLUDGE | RI |
| SITE | 37 | E-11 FUEL TANK SLUDGE | RI |
| SITE | 38 | DRUM BURIAL SITE | RI/RA |
| SITE | 39 | SLUDGE DRYING BEDS | RI |
| SITE | 41 | MISC. DISP. AREA | RI |
| ** ELLINGTON ANG, TX (AF) | | | |
| SITE | 1 | POL TANK FARM | RI/FS |
| SITE | 2 | FORMER BASE LANDFILL | RI/FS |
| ** ELMENDORF AFB, AK (AF) | | | |
| SITE | 1 | IS-8 | RI |
| SITE | 2 | C4 | RI |
| SITE | 4 | IS-2 | RI |
| SITE | 5 | D-16 | RI |
| SITE | 6 | IS-3 | RI |
| SITE | 7 | IS-4 | RI |
| SITE | 8 | IS-5 | RI |
| SITE | 9 | SP-6 | RI |
| SITE | 10 | 43-450 | RI |
| SITE | 11 | SP-1 | RI |
| SITE | 12 | SP-4 | RI |
| SITE | 13 | D-13 | RI |
| SITE | 14 | SP-13 | RI |
| SITE | 15 | D-3 | RI |

DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)

| Site Name | | Description | Project |
|-----------------------------|----|--------------------------------|---------|
| SITE | 16 | SP-5 | RI |
| SITE | 17 | D-5 | RI |
| SITE | 18 | SP 7 | RI |
| SITE | 20 | SP 11 | RI |
| SITE | 21 | S-6 | RI |
| SITE | 23 | D-7 | RI |
| SITE | 24 | FT 1 | RI |
| SITE | 25 | SP 2 | RI |
| SITE | 27 | IS 1 | RI |
| SITE | 28 | SP 15 | RI |
| SITE | 29 | IS 7 | RI |
| SITE | 30 | BLOG 11 435 | RA |
| SITE | 31 | SP 14 | RI |
| SITE | 31 | D-10 | RI |
| SITE | 32 | D 17 | RI |
| SITE | 33 | D 17 | RI |
| SITE | 33 | D 5 POL SLUDGE | RI |
| SITE | 34 | BLOG 22 009 HAZ MAT STOR | RI |
| SITE | 35 | FIRE ISLAND | RI |
| ** ENGLAND AFB, LA (AF) | | | |
| SITE | 4 | D 15 POL SLUDGE WEATHERING PIT | RI |
| ** F.E. WARREN AFB, WY (AF) | | | |
| SITE | 1 | BLOG 400 MOGAS SPILL | RI |
| SITE | 2 | ACID DRY WELL WEST OF BLOG 826 | RI/RA |
| SITE | 3 | BLOG 810 SPILL | RI |
| SITE | 4 | BLOG 330 SPILL | RI |
| SITE | 5 | BLOG 1250 SPILL | RI |
| SITE | 6 | BLOG 336 SPILL | RI |
| SITE | 7 | LANDFILL 2 | RI |
| SITE | 8 | LANDFILL 3 | RI |
| SITE | 9 | LANDFILL 4 | RI |
| SITE | 10 | LANDFILL 5 | RI |
| SITE | 11 | LANDFILL 6 | RI |
| SITE | 12 | BLOG 316 SPILL | RI |
| SITE | 13 | FPTA 1 | RI |
| SITE | 14 | FPTA 2 | RI |
| ** FAIRCHILD AFB, WA (AF) | | | |
| SITE | 1 | PS 3 | RI |
| SITE | 2 | PS 4 | RI |
| SITE | 3 | PS 2 | RI |
| SITE | 4 | OB 1 | RI |
| SITE | 5 | DS 7 | RI |
| SITE | 6 | PS 1 | RI |
| SITE | 7 | IS-4 | RI |
| SITE | 8 | FT 1 | RI |
| SITE | 9 | IS 1 | RI |
| SITE | 10 | SW 1 | RI |
| SITE | 11 | SW 8 | RI |
| SITE | 12 | WW 1 | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Descriptions | Projects |
|--|----|--------------------------------------|----------|
| SITE | 13 | IS-3 | RI |
| ** FORT YUKON LRRS, AK (AF) | | | |
| SITE | 1 | WASTE ACCUMULATION | RI |
| SITE | 2 | ROAD OILING | RI |
| SITE | 3 | LANDFILL 1 | RI |
| SITE | 4 | OIL DISCHARGE | RI |
| SITE | 5 | WHITE ALICE SITE | RI |
| SITE | 6 | LRRS | RI/RA |
| ** PEWAYNE ANG, IN (AF) | | | |
| SITE | 1 | S 1 | RI/FS |
| SITE | 2 | S 2 | RI/FS |
| SITE | 3 | S 3 | RI/FS |
| SITE | 4 | S 4 | RI/FS |
| SITE | 5 | S 5 | RI/FS |
| ** GALENA AIRPORT, AK (AF) | | | |
| SITE | 1 | SPILL 1 | RI |
| SITE | 2 | SPILL 2 | RI |
| SITE | 3 | SPILL 3 | RI |
| SITE | 4 | FPTA | RI |
| SITE | 5 | WASTE ACCUMULATION | RI |
| SITE | 6 | SPILL/LEAK 4&5 AND POL TANK FARM | RI |
| ** GEN. BILLY MITCHELL FIELD, WI (AF) | | | |
| SITE | 1 | FIRE TRAINING AREA | RI |
| SITE | 2 | H.W. STORAGE AREA | RI |
| SITE | 3 | POL AREA 71 | RI |
| SITE | 4 | STORAGE AREA 2 | RI |
| ** GEORGE, CA (AF) | | | |
| SITE | 1 | DISPOSAL SITE | RI |
| SITE | 2 | RADIOACTIVE/TOXIC DISPOSAL | RI |
| SITE | 3 | STARTER CARTRIDGE DISPOSAL ARE | RI |
| SITE | 4 | STREET SWEEPING DIS. | RI |
| SITE | 5 | ORIGINAL BASE LANDFILL | RI |
| SITE | 6 | BASE LANDFILL | RI |
| SITE | 7 | M-2 MUNITIONS DISP | RI |
| SITE | 8 | IND. OUTFALL DITCH 6 | RI |
| SITE | 9 | PEST. AND PAINT BURIAL | RI |
| SITE | 10 | ACID AND OIL BURIAL | RI |
| SITE | 11 | PEST. AND OIL BURIAL | RI |
| SITE | 12 | L-13 BASE LANDFILL | RI |
| SITE | 13 | S-4 FUEL AND OIL BURIAL | RI |
| SITE | 14 | S-5 FOTA | RI |
| SITE | 15 | S-6 ABANDONED FOTA | RI |
| SITE | 16 | S-19 TRANSFORMER STORAGE | RI |
| SITE | 17 | S-20 INDUST OUTFALL DITCH & STRM DRN | RI |
| SITE | 18 | S-21 STP PERCOLATION POUNDS | RI |
| SITE | 19 | S-22 FRENCH DRAIN | RI |
| SITE | 20 | S-23 FRENCH DRAINS | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | Site Number | Description | Project |
|---|-------------|--|---------|
| SITE | 21 | S-25 SLUDGE DRYING BEDS | RI |
| ** GOODFELLOW AFB, TX (AF) | | | |
| SITE | 1 | DRUM STORAGE | RI |
| SITE | 2 | SOUTH LANDFILL | RI |
| SITE | 3 | SOUTHEAST LANDFILL | RI |
| SITE | 4 | FUEL STORAGE AREA | RI |
| ** GRANITE MOUNTAIN, AK (AF) | | | |
| SITE | 1 | WASTE ACCUMULATION | RA |
| ** GREATER PITTSBURGH IAP, PA (AF) | | | |
| SITE | 5 | A-7 WASTE OIL TANKS | RVRA |
| SITE | 11 | MOTOR POOL AREA | RVRA |
| ** GREATER WILMINGTON ANG, DE (AF) | | | |
| SITE | 1 | AREA ADJCT TO POL PUMPHOUSE BLDG 2701 | RVFS |
| SITE | 2 | AREA DOWN GRADE OF REFUELER PARKING AREA | RVFS |
| SITE | 3 | SOUTH AND WEST EDGE OF AC PARKING AREA | RVFS |
| SITE | 4 | SE DRAINAGE DITCH | RVFS |
| ** GRIFFISS AFB, NY (AF) | | | |
| SITE | 1 | CONTAMINATED SOIL FOA | FS |
| SITE | 2 | BLDG 210 | RI |
| SITE | 3 | THREE MILE CREEK | FS |
| SITE | 4 | BULK FUEL STORAGE AREA | RA |
| SITE | 6 | BLDG 26 UST | RI |
| SITE | 7 | CONTAMINATED AREA NEAR T9 | RI |
| SITE | 8 | UT AT NEWPORT AREA | RI |
| ** HANCOCK FIELD, NY (AF) | | | |
| SITE | 1 | D-1 DISPOSAL SITE | RI |
| SITE | 2 | D-3 DISPOSAL SITE | RI |
| SITE | 3 | D-5 DISPOSAL SITE | RI |
| SITE | 4 | FT-1 FIRE TRAINING AREA | RI |
| SITE | 5 | S-1 TRANSFORMER STORAGE AREA | RI |
| SITE | 6 | S-3 ENTOMOLGY UNDERGROUND STORAGE | RI |
| SITE | 7 | SP-1 OLD SPILL SITE | RI |
| SITE | 8 | UNOFFICAL DUMP SITE | RI |
| SITE | 9 | DRAINAGE/POND SWAMP | RI |
| ** HANSCOM AFB, MA (AF) | | | |
| SITE | 1 | FIRE TRAINING 1 | RI |
| SITE | 2 | AAFES SERVICE STATION GASOLINE LEAK | RI |
| SITE | 3 | FIRE TRAINING 4 | RI |
| SITE | 4 | PAINT WASTE DISPOSAL | RI |
| SITE | 5 | JET FUEL TANK SLUDGE | RI |
| SITE | 6 | SANITARY LANDFILL | RI |
| SITE | 7 | FORMER FILTER BED | RI |
| SITE | 8 | IWT SYS | RI |
| SITE | 9 | SCOTT CIRCLE LANDFILL | RI |
| SITE | 10 | ADM BLDG JET FUEL SPILL | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|-------------------------------|----|--|---------|
| SITE | 11 | MERCURY SPILL | RI |
| SITE | 12 | VAR FUEL SPLS(RUNWY&TAXIWAY) | RI |
| SITE | 13 | MOTOR POOL SPILL | RI |
| ** HECTOR ANG, ND (AF) | | | |
| SITE | 1 | NW ORIENT FUEL OUTLET | RI/FS |
| SITE | 2 | BLDG 211 SPILL | RI/FS |
| SITE | 3 | WASTE STORAGE FACILITY | RI |
| SITE | 4 | BLDG 370 SPILL | RI/FS |
| SITE | 5 | FIRE TRAINING AREA | RI/FS |
| ** HICKAM AFB, HI (AF) | | | |
| SITE | 1 | TRI-SERVICES LANDFILL | RI |
| SITE | 5 | CANAL STORM DRAINAGE SYSTEM | RI |
| SITE | 7 | SITE 22 KUMUNAU CANAL STORM DRAIN SYSTE | RI |
| SITE | 9 | SITE 23 MTR POOL STORM DRAIN SYS | RI |
| SITE | 10 | HICKAM SITE 7 | RI |
| SITE | 11 | HICKAM SITE 13 | RI |
| SITE | 12 | HICKAM SITE 14 | RI |
| SITE | 13 | HICKAM SITE 15 | RI |
| SITE | 14 | HICKAM SITE 19 | RI |
| SITE | 15 | HICKAM SITE 1 | RI |
| SITE | 16 | SITE 9 FUEL LEAK | RI |
| SITE | 17 | SITE 10 FUEL LEAK | RI |
| SITE | 18 | SITE 11 FUEL LEAK | RI |
| SITE | 19 | SITE 12 FUEL LEAK | RI |
| SITE | 21 | SITE 16 FUEL LEAK | RI |
| SITE | 22 | SITE 17 FUEL LEAK | RI |
| SITE | 23 | SITE 18 FUEL LEAK | RI |
| ** HICKAM POL, HI (AF) | | | |
| SITE | 1 | KIPAPA POL SLUDGE DISPOSAL AND PIPE LEAK | RI |
| SITE | 2 | POL PIPELINE SITE 1 | RI |
| SITE | 3 | POL PIPELINE SITE 10 | RI |
| SITE | 4 | POL PIPELINE SITE 2 | RI |
| SITE | 5 | POL PIPELINE SITE 3 | RI |
| SITE | 6 | POL PIPELINE SITE 4 | RI |
| SITE | 7 | POL PIPELINE SITE 5 | RI |
| SITE | 8 | POL PIPELINE SITE 6 | RI |
| SITE | 9 | POL PIPELINE SITE 8 | RI |
| SITE | 10 | POL PIPELINE SITE 9 | RI |
| SITE | 11 | POL PIPELINE LEAK 7 | RI |
| SITE | 12 | WAINAKALGUA POL ENTIRE SITE | RI |
| SITE | 13 | STORAGE SPILL AREAS | RI |
| ** HILL AFB, UT (AF) | | | |
| SITE | 1 | SODIUM HYDROXIDE SPILL | RI |
| SITE | 2 | BERMAN POND | RI/RA |
| SITE | 3 | IWTP DRYING BED | RI |
| SITE | 4 | MTN. DRYING BEDS | RI |
| SITE | 5 | LANDFILL 1 | RI |
| SITE | 6 | LANDFILL 2 | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | Site Number | Description | Project |
|---|-------------|--|---------|
| SITE | 7 | LANDFILL 3 | RI/RA |
| SITE | 8 | LANDFILL 4 | RI/RA |
| SITE | 9 | LANDFILL 5 | RI/RA |
| SITE | 10 | HERBICIDE ORANGE TEST PLOT | RI |
| SITE | 11 | DISPOSAL PITS | RI |
| SITE | 12 | CHEMICAL DISPOSAL PIT 1 | RI/RA |
| SITE | 13 | CHEMICAL DISPOSAL PIT 2 | RI/RA |
| SITE | 14 | CHEMICAL DISPOSAL PIT 3 | RI/RA |
| SITE | 15 | PERIMETER ROAD | RI |
| SITE | 16 | SWAMP LEACH FIELD | RI |
| SITE | 17 | POND 3 | RI |
| SITE | 18 | B22 UNDER GROUND TANKS | RI/RA |
| SITE | 19 | US ARMY TOOELE RAIL SHOP | RI |
| SITE | 30 | SITE 3 LANDFILL | RI |
| SITE | 31 | SITE 4 | RI |
| SITE | 32 | SITE 5 | RI |
| SITE | 33 | SITE 6 | RI |
| SITE | 34 | PCB BURN PIT | RI |
| SITE | 35 | SPOIL PIT | RI |
| SITE | 36 | FIRE TRAINING AREA 1 | RI |
| SITE | 36 | GOLF COURSE | RI |
| SITE | 37 | BAMBERGER POND | RI |
| SITE | 389 | REFUELING AREA JP-4 FUEL SPILL | RI |
| SITE | 39 | CHEMICAL DISPOSAL PITS NOS. 1 AND 2 | RA |
| SITE | 40 | SITE 2 | RA |
| ** HOLLOMAN AFB, NM (AF) | | | |
| SITE | 1 | OIL SPILLS AT AIRCRAFT WASH RACKS | LTM |
| SITE | 5 | SERVICE STATION FUEL LEAK | RI |
| ** HULMAN ANG, IN (AF) | | | |
| SITE | 1 | OLD BLADDER AREA | RI/FS |
| SITE | 2 | POWER SUPPRESSOR PAD | RI/FS |
| SITE | 3 | VEHICLE BUILDING | RI/FS |
| SITE | 4 | POL FILLSTAND AREA | RI/FS |
| ** INDIAN MOUNTAIN LRMS, AK (AF) | | | |
| SITE | 3 | LANDFILL 3.4 AND WASTE ACCUMULATION 4 | RI/RA |
| SITE | 5 | SPILL 2,5,6,7,9,10 AND WASTE ACC. 6 | RI/RA |
| SITE | 11 | LANDFILL 1 | RI |
| SITE | 12 | WASTE ACCUMULATION AREA 1 | RI/RA |
| SITE | 13 | WASTE ACCUMULATION AREA 3 AND SPILL 4.11 | RI/RA |
| SITE | 14 | WASTE ACCUMULATION AREA 5 | RI/RA |
| SITE | 15 | ROAD OILING | RI |
| SITE | 16 | DUMP AREAS | RI |
| SITE | 17 | LANDFILL 2 | RI |
| SITE | 18 | WHITE ALICE SITE | RI/RA |
| ** JACKSONVILLE ANG, FL (AF) | | | |
| SITE | 1 | AREA NEAR HEATING PLANT | RI/FS |
| SITE | 2 | OWS INLETS AT DOWNGRADE END OF AC PARKIN | RI/FS |
| SITE | 3 | GROUND BENEATH 125TH FIG PARKING APRON | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|----------------------------------|----|---------------------------------|---------|
| SITE | 3 | FIRE TRAINING AREA | RI/FS |
| SITE | 5 | OVERFLOWING OWS AT HUSH HOUSE | RI/FS |
| SITE | 6 | AREA NEAR OWS/VEH MAINT. BLDG | RI/FS |
| ** JOE FOSS, SD (AF) | | | |
| SITE | 1 | UNDERGROUND STORAGE TANKS | RI/FS |
| SITE | 2 | FIRE TRAINING AREA TANKS | RI/FS |
| ** KELLY AFB, TX (AF) | | | |
| SITE | 1 | SA-4 | RI |
| SITE | 2 | GREEN WORM AREA | RI |
| SITE | 3 | 600 AREA | RI |
| SITE | 4 | SA-2 | RI/RA |
| SITE | 5 | IS-1 | RI |
| SITE | 6 | S-6 | RI |
| SITE | 7 | SA-3 | RI |
| SITE | 8 | S-2 | RI |
| SITE | 9 | S-7 | RI |
| SITE | 10 | SD-2 | RI |
| SITE | 11 | RD-1 | RI |
| SITE | 12 | S-3 | RI |
| SITE | 13 | D-6 | RI |
| SITE | 14 | RD-2 | RI |
| SITE | 15 | D-1 | RI |
| SITE | 16 | FC-1 | RI |
| SITE | 17 | FC-2 | RI |
| SITE | 18 | D-4 | RI |
| SITE | 19 | D-2 | RI |
| SITE | 20 | S-1 | RI |
| SITE | 21 | E-1 | RI |
| SITE | 22 | S-4 | RI |
| SITE | 23 | E-3 | RI |
| SITE | 24 | SITE 4 COAL FLYASH DISPOSAL | RI |
| SITE | 25 | SITE 5 COAL FLYASH DISPOSAL | RI |
| SITE | 25 | SITE 7 ABANDONED FTA | RI |
| SITE | 26 | SITE 10 POL STORAGE AREA | RI |
| SITE | 27 | SECURITY FENCE AREA | RI |
| SITE | 28 | SITE D-3 LANDFILL | RI |
| SITE | 29 | SITE D-5 LANDFILL | RI |
| SITE | 30 | SITE D-7 LANDFILL | RI |
| SITE | 31 | SITE D-7 LANDFILL | RI |
| SITE | 31 | SITE D-10 TAR PIT | RI |
| SITE | 32 | SITE F-2 OIL EVAPORATION PIT | RI/FS |
| SITE | 33 | LIQUID WASTE INCINERATOR SITE | RI |
| SITE | 34 | SITE SA-2 SLUDGE SPREADING AREA | RI |
| SITE | 35 | LS-1 WASTE SITE | RI |
| SITE | 36 | E-3 OIL EVAPORATION PIT | FS |
| ** KEY FIELD ANG, MS (AF) | | | |
| SITE | 1 | KINGSLEY SITES | RI |
| ** KIRTLAND AFB, NM (AF) | | | |
| SITE | 1 | | RD |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | Description | Project |
|--------------------------------|--------------------------------------|---------|
| ** LACKLAND, TX (AF) | | |
| SITE | 1 ABANDON UST 300 AREA | RI |
| SITE | 2 ABANDON UST 400 AREA | RI |
| SITE | 3 ABANDONED UST 100 AREA | RI |
| SITE | 4 ABANDONED UST 700 AREA | RI |
| SITE | 5 LOW LEVEL RADIOACTIVE DISP. 423 | RI |
| SITE | 6 LOW LEVEL RADIOACTIVE DISP 401 | RI |
| SITE | 7 LOW LEVEL RADIOACTIVE DISPOSAL 429 | RI |
| SITE | 8 LOW LEVEL RADIOACTIVE DISPOSAL 430 | RI |
| SITE | 9 LOW LEVEL RADIOACTIVE DISP. 444 | RI |
| SITE | 10 LOW LEVEL RADIOACTIVE DISP. 508 | RI |
| SITE | 11 FPTA 2 | RI |
| SITE | 12 FPTA NO.2 | RI |
| SITE | 13 LANDFILL 4 | RI |
| SITE | 14 EXPOSIVE ORDNANCE BURN PIT | RI |
| SITE | 15 WASTE BURNING GROUNDS | RI |
| SITE | 16 LEACHING AREA 466 | RI |
| SITE | 17 LEACHING AREA 7595 | RI |
| ** LANGLEY AFB, VA (AF) | | |
| SITE | 2 FUEL SATURATED AREA | RI/RA |
| ** LAUGHLIN, TX (AF) | | |
| SITE | 1 SUPPLY STORAGE AREA | RI |
| SITE | 2 SOUTH BOUNDARY DIKE | RI |
| SITE | 3 DEFUEL PIT | RI |
| SITE | 4 DPDO | RI |
| SITE | 5 FIRE FIGHTING TRAINING AREA | RI |
| SITE | 6 SLUDGE DISPOSAL AREA | RI |
| SITE | 7 BASE LANDFILL | RI |
| SITE | 8 NEW INDUSTRIAL WASTE POND | RI |
| SITE | 9 OLD INDUSTRIAL WASTE POND | RI |
| ** LITTLE ROCK, AR (AF) | | |
| SITE | 1 LANDFILL 2 | RI |
| SITE | 2 LANDFILL 1 | RI |
| SITE | 3 LANDFILL 3 | RI |
| SITE | 4 LANDFILL 4 | RI |
| SITE | 5 LANDFILL 5 | RI |
| SITE | 6 LANDFILL 6 | RI |
| SITE | 7 LANDFILL 7 | RI |
| SITE | 8 FPTA | RI |
| SITE | 9 DISCHARGE PIT | RI |
| SITE | 10 DRDO STORAGE | RI |
| SITE | 11 POL FUEL SPILL | RI |
| SITE | 12 BULK FUEL TANK FARM | RI |
| SITE | 13 FLIGHT-LINE FUEL LEAKS | RI |
| SITE | 14 FORMER CHEMICAL PLANT SITE | RI |
| SITE | 15 GOLF COURSE AREA | FS |
| ** LOS ANGELES, CA (AF) | | |
| SITE | 1 FUEL SPILL SITE | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|--------------------------------|----|--|---------|
| SITE | 2 | PESTICIDE DISPOSAL SITE | FS |
| ** LOWRY AFB, CO (AF) | | | |
| SITE | 1 | D-1 | FS |
| SITE | 2 | FT-1 | FS |
| SITE | 3 | S 2 | FS |
| SITE | 4 | S 3 | FS |
| SITE | 5 | S 5 | FS |
| SITE | 6 | S 10 | FS |
| SITE | 7 | FT-2 | FS |
| SITE | 8 | SP-1 | FS |
| SITE | 9 | D-2 | FS |
| SITE | 10 | BLOG 1010 | FS |
| SITE | 11 | FAC 369 ABANDONED UST | FS |
| SITE | 12 | FORMER SERVICE STATION 3EA ABANDONED UST | FS |
| SITE | 13 | POL STORAGE YARD 13EA ABANDONED UST | RI |
| ** LUKE AFB, AZ (AF) | | | |
| SITE | 1 | WASTE TREATMENT ANNEX | RI |
| SITE | 2 | PERIMETER ROAD POL WASTE APPLICATIONS | RI |
| SITE | 3 | POL WASTE DISPOSAL TRENCH | RI |
| SITE | 4 | 993 | LTM |
| SITE | 5 | SOUTH FIRE TRAINING AREA | RI |
| SITE | 6 | NORTH FIRE TRAINING AREA | RI |
| ** MACDILL AFB, FL (AF) | | | |
| SITE | 4 | FORMER FUEL STORAGE AREA | RD |
| SITE | 5 | LANDFILL AT DOG KENNEL | RI |
| SITE | 7 | LANDFILL AT CE WASHRACK | RI |
| SITE | 8 | LANDFILL AT EOD EAST | RI |
| SITE | 9 | LANDFILL AT EOD WEST | RI |
| SITE | 10 | WEST LANDFILL | RI |
| SITE | 11 | CURRENT LANDFILL | RI |
| SITE | 12 | CHEMICAL MUNITIONS BURIAL SITE | RI |
| SITE | 13 | CREOSOTE PIT | RI |
| SITE | 14 | FUEL TANK FARM | RI |
| SITE | 15 | DRUM STORAGE AREA | RI |
| SITE | 16 | FIRE TRAINING AREA | RI |
| SITE | 17 | FORMER FUEL STORAGE AREA NEXT TO AGE | RI |
| SITE | 18 | OLD LANDFILL | RI |
| SITE | 19 | AP7 CURRENT LANDFILL | RI |
| SITE | 20 | ARMY TEST SITE | RI |
| SITE | 21 | AP11 PESTICIDE RINSE AREA | RI |
| SITE | 22 | FORMER FUEL STORAGE AREA 2 | RD |
| SITE | 23 | AVIATION SLUDGE WEATHERING 17 | RI |
| ** MALMSTROM, MT (AF) | | | |
| SITE | 1 | SITE B FORMER FUEL STORAGE AREA 2 | RI |
| SITE | 2 | PS 3 | RI |
| SITE | 3 | OS 2 | RI |
| SITE | 4 | SW 4 | RI |
| SITE | 5 | SW 5 | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | Site Number | Description | Project |
|-----------|-------------|-------------|---------|
| SITE | 6 | SW-1 | RI |
| SITE | 7 | OS-1 | RI |
| SITE | 8 | IS-2 | RI |
| SITE | 9 | OB-3 | RI |
| SITE | 10 | SW-3 | RI |
| SITE | 11 | PS-2 | RI |
| SITE | 12 | PS-1 | RI |
| SITE | 13 | WW-1 | RI |
| SITE | 14 | IS-3 | RI |
| SITE | 15 | FT-1 | RI |
| SITE | 16 | PS-5 | RI |
| SITE | 17 | IS-1 | RI |
| SITE | 18 | PS-4 | RI |
| SITE | 19 | SW-2 | RI |
| SITE | 21 | OB-1 | RI |

**** MARCH, CA (AF)**

| | | | |
|------|----|----------------------------------|----|
| SITE | 1 | UNCONFIRMED SOLVENT DISPOSAL | RI |
| SITE | 2 | LF 5 | RI |
| SITE | 3 | LNOFL 3 | RI |
| SITE | 4 | TCE CONTAMINATION | RI |
| SITE | 5 | TCE CONTAMINATION | RI |
| SITE | 6 | LNOFL 6 | RI |
| SITE | 7 | FPTA 2 | RI |
| SITE | 8 | AIRCRAFT ISO. AREA | RI |
| SITE | 9 | BULK FUEL STOR. | RI |
| SITE | 10 | WASTE OIL PIT | RI |
| SITE | 11 | MAIN OIL/WATER SEPERATION | RI |
| SITE | 12 | FLIGHTLINE DRAINAGE | RI |
| SITE | 13 | FLIGHT LINE SHOP | RI |
| SITE | 14 | CE STOR YD | RI |
| SITE | 15 | LNOFL 1 | RI |
| SITE | 16 | MUNITIONS RESIDENCE BURIAL | RI |
| SITE | 17 | LANDFILL 2 | RI |
| SITE | 18 | LANDFILL 7 | RI |
| SITE | 19 | FPTA 1 | RI |
| SITE | 20 | FPTA 3 | RI |
| SITE | 21 | E SLUDGE DRYING BEDS | RI |
| SITE | 22 | W SLUDGE DRYING BEDS | RI |
| SITE | 23 | EFFLUENT POND | RI |
| SITE | 24 | CONDURE EFFLUENT POND | RI |
| SITE | 25 | SWIMMING POOL FILL | RI |
| SITE | 26 | LNO FUEL PUMP STATION OVERFLOW | RI |
| SITE | 27 | TANK TRUCK SPILL | RI |
| SITE | 28 | WTP SLUDGE | RI |
| SITE | 29 | ENGINE TEST CELL | RI |
| SITE | 30 | BLOG #22 POL TANKS | RI |
| SITE | 33 | BLOG #22 UNDERGROUND P/O/L TANKS | RI |
| SITE | 35 | ZONE 1 MONITORING | RI |
| SITE | 36 | TCE CONTAM | RI |

**** MATHEW AFB, CA (AF)**

| | | | |
|------|---|---------------------|----|
| SITE | 1 | DRAINAGE DITCH NO 3 | RI |
|------|---|---------------------|----|

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|------------------------------|----|--------------------------------------|---------|
| SITE | 2 | OFF BASE WATER SUPPLY 3 RES. | RA |
| SITE | 7 | "7100" AREA DISPOSAL | RI |
| SITE | 20 | ACW SITE NPL-12 | RI |
| ** MCCORD, WA (AF) | | | |
| SITE | 1 | D5 LANDFILL/BURNING TRENCH | RI/FS |
| SITE | 2 | D7 BASE LANDFILL | RI/FS |
| SITE | 3 | D39 BASE LANDFILL/BURNING TRENCH | RI/FS |
| SITE | 4 | SITE 4 LANDFILL | RI |
| SITE | 5 | D6 BASE LANDFILL | FS |
| SITE | 6 | C54 LEACH PIT | RA |
| SITE | 7 | JP-4 SPILL SITES 34 AREA A | RA |
| SITE | 8 | SITE A2 BASE LANDFILL | RA |
| SITE | 9 | JP-4 SPILL SITES 46 AREA A | RA |
| SITE | 10 | SITE C37 POL SPILL/DISPOSAL | RA |
| SITE | 11 | C42 FUEL SPILL | RA |
| SITE | 12 | LEACH PIT C-57 | RA |
| SITE | 13 | PROVIDE BOTTLED WATER TO ALG | RA |
| SITE | 14 | RINSATE DISPOSAL REIMBURSEMENT | RA |
| SITE | 16 | BURIAL PIT | RA |
| ** MCCLELLAN, CA (AF) | | | |
| SITE | 1 | BURNING/BURIAL PIT AREA D | RI/RA |
| SITE | 2 | SLUDGE/OIL PIT AREA D | RI/RA |
| SITE | 3 | SLUDGE/BURNING/BURIAL PIT AREA D | RI/RA |
| SITE | 4 | SLUDGE/OIL PIT AREA D | RI/RA |
| SITE | 5 | SLUDGE/OIL SOLVENT BURN PIT AREA D | RI/RA |
| SITE | 6 | OIL BURN PIT AREA D | RI/RA |
| SITE | 7 | SLUDGE/OIL PIT AREA C | RI/RA |
| SITE | 8 | SLUDGE BURIAL PIT AREA C | RI/RA |
| SITE | 9 | BURIAL PIT AREA C | RI/RA |
| SITE | 10 | BURIAL PIT AREA C | RI/RA |
| SITE | 11 | BURIAL PIT AREA C | RI/RA |
| SITE | 12 | BURIAL PIT AREA C | RI/RA |
| SITE | 13 | BURIAL PIT PLUNG WASTE/SLUDGE AREA C | RI/RA |
| SITE | 14 | BURIAL PIT AREA C | RI/RA |
| SITE | 15 | SODIUM VALVE TRENCH AREA C | RI/RA |
| SITE | 16 | SODIUM VALVE TRENCH AREA C | RI/RA |
| SITE | 17 | BURIAL PIT AREA C | RI/RA |
| SITE | 18 | BURIAL PIT AREA C | RI/RA |
| SITE | 19 | BURIAL PIT AREA C | RI/RA |
| SITE | 20 | SLUDGE/OIL PIT AREA C | RI/RA |
| SITE | 21 | SLUDGE/OIL PIT AREA C | RI/RA |
| SITE | 22 | BURNING/BURIAL PIT AREA C | RI/RA |
| SITE | 23 | BURIAL PIT SW OF AREA C | RI/RA |
| SITE | 24 | BURNING/BURIAL PIT NEAR AREA B | RI/RA |
| SITE | 25 | BURIAL PIT AREA A | RI/RA |
| SITE | 26 | SLUDGE PIT AREA D | RI/RA |
| SITE | 27 | SODIUM VALVE TRENCH AREA D | RI/RA |
| SITE | 28 | CHEEK DEBRIS SLUDGE PIT AREA C | RI/RA |
| SITE | 29 | SCRAP MATERIAL BURNER AREA C | RI/RA |
| SITE | 30 | 1155TH SURFACE DISPOSAL SITE AREA B | RI/RA |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|--------------------------|----|---------------------------------------|---------|
| SITE | 31 | REFUSE INCINERATORS SOUTH OF AREA C | RI/RA |
| SITE | 32 | HAZARDOUS WASTE STORAGE AREA C | RI/RA |
| SITE | 33 | INDUSTRIAL SLUDGE LAND FARM AREA D | RI/RA |
| SITE | 34 | WASTE SOLVENT STORAGE TANKS AREA A | RI/RA |
| SITE | 35 | SCRAP METAL BURIAL PIT AREA B | RI/RA |
| SITE | 36 | DRUM STORAGE AREA B | RI/RA |
| SITE | 37 | BURIAL PIT AREA A | RI/RA |
| SITE | 38 | ENGINE REPAIR SHOP AREA A | RI/RA |
| SITE | 39 | BURNING/BURIAL PIT AREA A | RI/RA |
| SITE | 40 | INDUSTRIAL SLUDGE DRYING BEDS AREA A | RI/RA |
| SITE | 41 | BURIAL PIT AREA C | RI/RA |
| SITE | 42 | OIL/BURNING PITS AREA C | RI/RA |
| SITE | 43 | BURIAL PIT AREA C | RI/RA |
| SITE | 44 | SURFACE STORAGE AREA NORTH OF BASE | RI/RA |
| SITE | 45 | PAINT BURIAL PIT NORTH OF BASE | RI/RA |
| SITE | 46 | OLD SALVAGE YARD OPERATION AREA NORTH | RI/RA |
| SITE | 47 | BLDG 666 AREA B | RI/RA |
| SITE | 48 | WASTE TREATMENT AREA C | RI/RA |
| SITE | 49 | BURIAL PIT AREA C | RI/RA |
| SITE | 50 | SETTLING POND AREA C | RI/RA |
| SITE | 51 | SETTLING PONDS AREA C | RI/RA |
| SITE | 52 | BURIAL PIT AREA C | RI/RA |
| SITE | 53 | SETTLING POND AREA C | RI/RA |
| SITE | 54 | SURFACE SITE AREA C | RI/RA |
| SITE | 55 | SURFACE SITE AREA C | RI/RA |
| SITE | 56 | SURFACE SITE AREA C | RI/RA |
| SITE | 57 | PIT AREA C | RI/RA |
| SITE | 58 | BURIED TANK AREA C | RI/RA |
| SITE | 59 | BURIED TANK AREA C | RI/RA |
| SITE | 60 | PONDS AREA C | RI/RA |
| SITE | 61 | ACID PIT AREA C | RI/RA |
| SITE | 62 | CYANIDE PIT AREA C | RI/RA |
| SITE | 63 | DITCH AREA C | RI/RA |
| SITE | 65 | DITCH AREA C | RI/RA |
| SITE | 66 | WASTE POND AREA C | RI/RA |
| SITE | 67 | WASTE PIT AREA C | RI/RA |
| SITE | 68 | SLUDGE POND | RI/RA |
| SITE | 69 | WASTE PIT AREA C | RI/RA |
| ** MCENTIRE ANG, SC (AF) | | | |
| SITE | 2 | FPTA 5 | RI |
| SITE | 3 | OIL DUMP SITE | RI |
| SITE | 4 | C141 SPILL AREA | RI |
| SITE | 5 | 4Y WASTE STORAGE FAC. AREA STORAGE | RI |
| ** MCGUIRE, NJ (AF) | | | |
| SITE | 1 | FIRE PROTECTION TRAINING AREA 1 | RI |
| SITE | 2 | FIRE PROTECTION TRAINING AREA 2 | RI |
| SITE | 3 | FIRE PROTECTION TRAINING AREA 3 | RI |
| SITE | 4 | LANDFILL 2 | RI |
| SITE | 5 | LANDFILL 3 | RI |
| SITE | 6 | LANDFILL 4 ZONE 1 | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|--------------------------------------|----|------------------------------------|---------|
| SITE | 7 | LANDFILL 5 ZONE 1 | RI |
| SITE | 8 | LANDFILL 6 ZONE 1 | RI |
| SITE | 9 | DPDO STORAGE FACILITY | RI |
| SITE | 10 | MISSILE SITE TRANSFORMER LOCATION | RI |
| SITE | 11 | PESTICIDE WASH AREA | RI |
| SITE | 13 | MISSILE SITE MOGAS STORAGE TANKS | RI |
| SITE | 14 | NDI SHOP DRAIN FIELD | RI |
| SITE | 15 | MISSILE SITE ACCIDENT AREA | RI |
| SITE | 16 | PCB SPILL SITE | RI |
| SITE | 17 | BULK FUEL STORAGE TANK | RI |
| SITE | 18 | BULK FUEL STORAGE TANK | RI |
| SITE | 19 | BURIED OIL DRUMS | RI |
| SITE | 20 | MISSILE SITE JP-X DISCHARGE PIT | RI |
| SITE | 21 | WWTP SLUDGE DISPOSAL AREAS ZONE 1 | RI |
| SITE | 22 | MISSILE SITE NEUTRALIZED ACID PIT | RI |
| SITE | 23 | CLEWAN UP HAZ WASTE VARIOUS SITES | RA |
| ** MINN STPAUL IAP, MN (AF) | | | |
| SITE | 5 | PAST FUEL SPILL AREA | RI/RA |
| ** MOODY AFB, GA (AF) | | | |
| SITE | 1 | SOUTHWEST LANDFILL | RI |
| SITE | 2 | OUT BURIAL SITE | RI/RA |
| SITE | 3 | LILY PAD POND FILL SITE | RI |
| SITE | 12 | NORTH POL TANK FARM | RI/FS |
| ** MOUNTAIN HOME AFB, ID (AF) | | | |
| SITE | 1 | WASTE OIL DISPOSAL SITE | RI |
| SITE | 2 | EXISTING FIRE DEPT. TRAINING AREA | FS |
| ** MURPHY DOME LRAS, AK (AF) | | | |
| SITE | 1 | ROAD OILING | RI |
| SITE | 2 | LANDFILL 1 | RI |
| SITE | 3 | WASTE ACCUMULATION AREA 2 | RI |
| SITE | 4 | WASTE ACCUMULATION AREA 3 | RI |
| SITE | 5 | LANDFL 2 | RI |
| SITE | 6 | WHITE ALICE | RI |
| SITE | 7 | WASTE ACCUMULATION AREA 1 | RI |
| SITE | 8 | LRRA/VAC | RI |
| ** NEWARK AFB, OH (AF) | | | |
| SITE | 1 | SP 3 | RI |
| SITE | 2 | SP 4 | RI |
| SITE | 3 | SP 1 | RI |
| SITE | 4 | AT 1 | RI |
| ** MORTON AFB, CA (AF) | | | |
| SITE | 1 | LANDFILL 1 | RI |
| SITE | 2 | LOW LEVEL RADIOACTIVE WASTE BURIAL | RI |
| SITE | 3 | INDUSTRIAL WASTE LAGOONS | RI |
| SITE | 4 | BLDG 723 | RA |
| SITE | 5 | WASTE PIT 1 | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|-------------------------------|----|---|---------|
| SITE | 6 | WASTE PIT 2 | RI |
| SITE | 7 | WASTE PIT 3 | RI |
| SITE | 8 | WASTE PIT 4 | RI |
| SITE | 9 | FPTA 2 | RI |
| SITE | 10 | OIL SPILL AREAS | RI |
| SITE | 12 | IWTP SLDG DRYING BEDS | RI |
| SITE | 13 | PCB SPILL | RI |
| SITE | 14 | CHEMICAL SPILL 5 | RI |
| SITE | 15 | FUEL SLUDGE DISPAVS/DAVA EVAP BASIN | RI |
| SITE | 16 | WASTE DRUM STORAGE 1 | RI |
| SITE | 17 | WASTE DRUM STORAGE 3 | RI |
| SITE | 18 | AVGAS SPILL | RI |
| ** OCEAN CAPE, AK (AF) | | | |
| SITE | 1 | RADIO RELAY SITE | RA |
| ** OTIS ANG, MA (AF) | | | |
| SITE | 1 | SANITARY LANDFILL | RI/RA |
| SITE | 2 | CURRENT FIRE FIGHTING TRAINING AREA | RI/RA |
| SITE | 3 | AVGAS FUEL TEST DUMP SITE | RI/RA |
| SITE | 4 | PETROL/FUEL STORAGE AREA | RI/RA |
| SITE | 5 | RAILYARD FUEL PUMPING STATION | RI/RA |
| SITE | 6 | FORMER SEWAGE SLUDGE BED 1 | RI/RA |
| SITE | 7 | R/W AIRCRAFT MAINTENANCE DRAINAGE DITCH | RI/RA |
| SITE | 8 | FORMER SLUDGE BED 2 | RI/RA |
| SITE | 9 | MAIN BASE LANDFILL | RI/RA |
| SITE | 10 | AQUA FARM DRAINAGE SWALE | RI/RA |
| SITE | 11 | R/W AIRCRAFT MAINTENANCE DRAINAGE DITCH | RI/RA |
| SITE | 12 | FORMER MAIN USAF MOTOR POOL | RI/RA |
| SITE | 13 | FORMER ENGINE RUN-UP AREA | RI/RA |
| SITE | 14 | FUEL LINE LEAK CONTAINMENT AREA | RI/RA |
| SITE | 15 | RANGE FUEL LINE LEAK | RI/RA |
| SITE | 16 | HANAR 158, AIRCRAFT MAINTENANCE | RI/RA |
| SITE | 17 | BLDG 156 VAPOR DEGREASER LEACH PIT | RI/RA |
| SITE | 18 | COAL/ASH RUNOFF DRAINAGE DITCH | RI/RA |
| SITE | 19 | CURRENT PRODUCT TANKS 100, 101 | RI/RA |
| SITE | 20 | FORMER USAF/ANG COAL STORAGE YARD | RI/RA |
| SITE | 21 | BX AUTOMOBILE SERVICE STATION | RI/RA |
| SITE | 22 | TRANSMITTER STATION | RI/RA |
| SITE | 23 | HANGAR 3170 AREA | RI/RA |
| SITE | 24 | USCG MAINTENANCE SHOPS | RI/RA |
| SITE | 25 | HANGAR 128 | RI/RA |
| SITE | 26 | UTES/BOMARK | RI/RA |
| SITE | 27 | SOUTH TRUCK ROAD MOTOR POOL | RI/RA |
| SITE | 28 | WEST TRUCK ROAD MOTOR POOL | RI/RA |
| SITE | 29 | FORMER REFUELER MAIN SHOP | RI/RA |
| SITE | 30 | WWII MOTOR POOL/TRANSFER POINT | RI/RA |
| SITE | 31 | FUEL TRANSFER POINT | RI/RA |
| SITE | 32 | FORMER MOGAS STORAGE | RI/RA |
| SITE | 33 | FUEL SPILL (RANGE E 3) | RI/RA |
| SITE | 34 | CURRENT PRODUCT TANK 115 | RI/RA |
| SITE | 35 | CURRENT PRODUCT TANK 88 | RI/RA |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|---------------------------------------|----|--|---------|
| SITE | 36 | CURRENT PRODUCT TANK 90 | RI/RA |
| SITE | 37 | CURRENT PRODUCT TANK 108 | RI/RA |
| SITE | 38 | PESTICIDE SHOP | RI/RA |
| SITE | 39 | FORMER FIREFIGHTING TRAINING AREA ZONE 1 | RI/RA |
| SITE | 40 | FORMER FIRE TRAINING AREA (1956-1958) | RI/RA |
| SITE | 41 | FORMER FIRE TRAINING AREA (1948-1956) | RI/RA |
| SITE | 42 | NON-DESTRUCTIVE TEST LAB ZONE 1 | RI/RA |
| ** PATRICK AFS, FL (AF) | | | |
| SITE | 1 | LANDFILL 1 | RI |
| SITE | 2 | SITE 3 CHEMICAL DISPOSAL SITE | RI/FS |
| SITE | 3 | CHEMICAL DISPOSAL SITE 6 | RI |
| SITE | 4 | LANDFILL 4 | RI |
| SITE | 5 | CHEMICAL DISPOSAL SITE 7 | RI |
| SITE | 6 | CHEMICAL DISPOSAL SITE 1 | RI |
| SITE | 7 | CHEMICAL DISPOSAL SITE 2 | RI |
| SITE | 8 | LANDFILL 3 | RI |
| SITE | 9 | CHEMICAL DISPOSAL SITE 4 | RI |
| SITE | 10 | CHEMICAL DISPOSAL SITE 5 | RI |
| SITE | 11 | FPTA 1 | RI |
| SITE | 12 | FPTA 2 | RI |
| SITE | 13 | POL BULK STORAGE | FS |
| SITE | 14 | PCB SPILL 2 | RI |
| SITE | 15 | LANDFILL 5A | RI |
| ** PHELPS COLLINS ANG, MI (AF) | | | |
| SITE | 1 | FORMER SITE OF HANGAR 9 | RI/FS |
| SITE | 2 | MOTOR POOL AREA BLDGS 7 & 13 | RI/FS |
| SITE | 3 | FORMER COUNTY GARAGE | RI/FS |
| SITE | 4 | THIRD FIRE DEPARTMENT TRAINING AREA | RI/RO |
| SITE | 5 | SECOND FIRE DEPARTMENT TRAINING AREA | RI/FS |
| SITE | 6 | FORMER SOIL WASTE LANDFILL | RO |
| SITE | 7 | FIRST FIRE DEPARTMENT TRAINING AREA | RI/FS |
| SITE | 8 | FORMER RADAR TOWER | RI/FS |
| ** PLATTSBURGH AFB, NY (AF) | | | |
| SITE | 1 | TIRE SHOP WASTE ACCUMULATION AREA | RA |
| ** POPE, NC (AF) | | | |
| SITE | 1 | FACILITY 452 | RA |
| SITE | 2 | POL BULK STORAGE | RA |
| ** PORT HEIDEN, AK (AF) | | | |
| SITE | 1 | PCB SPILL | RA |
| ** PORTLAND ANG, OR (AF) | | | |
| SITE | 1 | CENTRAL HAZ WASTE TEMPORARY STOR.AREA | RI/FS |
| SITE | 2 | CE HAZ MATRL STORAGE AREA | RI/FS |
| SITE | 3 | HUSH HOUSE | RI/FS |
| SITE | 4 | MAIN DRAINAGE DITCH | RI/FS |
| SITE | 5 | AGE MAINTENANCE SHOP | RI/FS |
| SITE | 6 | BURN PIT AREA | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|-------------------------------------|----|-------------------------------------|---------|
| SITE | 7 | SANITARY LANDFILL | RI/FS |
| SITE | 8 | NORTH BEND ANG | RI/FS |
| ** RANDOLPH, TX (AF) | | | |
| SITE | 1 | TF-73 | RI |
| SITE | 2 | TF-13 | RI |
| SITE | 3 | TF-4 | RI |
| SITE | 4 | TF-15038 | RI |
| SITE | 5 | TF-875 | RI |
| SITE | 6 | TF-675 | RI |
| SITE | 7 | TF-35 | RI |
| SITE | 8 | FPTA 2 | RI |
| SITE | 9 | LANDFILL 2 | RI |
| SITE | 10 | TANK T-16 | RI |
| SITE | 11 | T-24, T-25 | RI |
| SITE | 12 | POL TANK SLUDGE DISPOSAL AREA | RI |
| ** REESE AFB, TX (AF) | | | |
| SITE | 1 | D-1 | RI |
| SITE | 2 | SI-1 | RI |
| SITE | 3 | D-4 | RI |
| SITE | 4 | D-5 | RI |
| SITE | 5 | D-11 | RI |
| SITE | 6 | SI-2 | RI |
| SITE | 7 | SI-4 | RI |
| SITE | 8 | FT-1 | RI |
| SITE | 9 | SP-1 | RI |
| SITE | 10 | SEWAGE DIGESTER SLUDGE AREA | RI |
| SITE | 11 | POL STORAGE 4EA | RI |
| SITE | 12 | SEWAGE LAKE | RI |
| SITE | 14 | SEWAGE FT-3 | RI |
| SITE | 15 | HURLWOOD ACQUISITION AND LANDFILL | RI |
| ** RICHARDS GEBEUR, MO (AF) | | | |
| SITE | 1 | SOUTH LANDFILL | RI |
| SITE | 2 | NORTHEAST LANDFILL | RI |
| SITE | 6 | NORTH BURN AREA | RI |
| SITE | 8 | HERBICIDE BURIAL AREA | RI |
| SITE | 9 | OIL SATURATED AREA | RI |
| SITE | 10 | HAZ WASTE DRUM STORAGE | RI |
| SITE | 12 | POL STORAGE AREA | RI |
| ** RICKENBACKER ANG, OH (AF) | | | |
| SITE | 1 | HAZ WASTE STORAGE TANK AREA | RI/FS |
| SITE | 2 | JP-4 BULK STORAGE FARM | RI/FS |
| SITE | 3 | JP-4 PUMPING STATION 4 | RI/FS |
| SITE | 4 | AREA NEAR JP-4 PUMPING STATION 5 | RI/FS |
| SITE | 5 | SPIII AREA BETWEEN TAXIWAYS B & C | RI/FS |
| SITE | 6 | UG UNLEADED GASOLINE STORAGE TANK | RI/FS |
| SITE | 7 | SALVAGE YARD, FAC. NO 906 | RI/FS |
| SITE | 8 | JP-4 FUEL LINE RUPTURE | RI/FS |
| SITE | 9 | OLD DRUM STORAGE AREA NEAR BLDG 873 | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|---------------------------------|----|--|---------|
| SITE | 10 | KC-35 CRASH | RI/FS |
| SITE | 11 | FUEL DUMP PIT | RI/FS |
| SITE | 12 | OLD ENTOMOLOGY LAB | RI/FS |
| SITE | 13 | DRAINAGE DITCH NR HEAT PLANT NORTH COAL | RI/FS |
| SITE | 14 | DRAIN DITCH NR HEAT PLNT SOUTH COAL PILE | RI/FS |
| SITE | 15 | DRUM BHND H2O TREAT PLANT SLUDGE BED | RI/FS |
| SITE | 16 | OUTDOOR LUBE DRUM STORAGE NR HEAT PLANT | RI/FS |
| SITE | 17 | FIRE TRAINING AREA | RI/FS |
| SITE | 18 | SANITARY SEWAGE TREATMENT SLUDGE BED | RI/FS |
| SITE | 19 | STORM DRAIN DITCH SYSTEM | RI/FS |
| SITE | 20 | ELECTRICAL TRANSFORMER STORAGE YARD | RI/FS |
| SITE | 21 | DRAINAGE DITCH NEAR LANDFILL | RI/FS |
| ** ROBINS AFB, GA (AF) | | | |
| SITE | 1 | LANDFILL 4 | RI |
| SITE | 2 | FTA 2 | RI |
| SITE | 3 | SLUDGE LAGOON | RI |
| SITE | 4 | LANDFILL 3 | RI |
| SITE | 5 | DDT SITE | RI |
| SITE | 6 | 2 WATERWELLS (REPLACE) | RI |
| SITE | 7 | UST REMOVAL | RI |
| SITE | 10 | LANDFILL 1 | RI |
| SITE | 11 | LANDFILL 2 | RI |
| SITE | 20 | FTA 4 | RI |
| SITE | 20 | JP-4 SPILL (1965) | RI/FS |
| SITE | 21 | PCB SPILL | RI |
| SITE | 22 | FTA 1 | RI |
| SITE | 23 | FTA 3 | RI |
| SITE | 24 | RADIOACTIVE WASTE DISPOSAL SITE | RI |
| SITE | 25 | HAZ WASTE DISPOSAL SITE | RI |
| SITE | 26 | LABORATORY CHEM. BURIAL | RI |
| ** SEYMOUR-JOHNSON AFB, NC (AF) | | | |
| SITE | 1 | FUEL HYDRANT SYSTEM | RI |
| SITE | 2 | TANK FARM SPILL | RI |
| SITE | 3 | LANDFILL 1 | RI |
| SITE | 5 | #6 FIRE TRAINING AREA | RI |
| SITE | 6 | LANDFILL 4 | RI |
| SITE | 7 | FUEL TANK FUEL SPILL AREA A | FS |
| SITE | 13 | DITCH ADJACENT TO RR TRACKS | RI/FS |
| SITE | 14 | CSR DITCH | RI |
| ** SHAW AFB, SC (AF) | | | |
| SITE | 1 | JP-4 SPILL | RI |
| ** SKEMYA, AK (AF) | | | |
| SITE | 1 | MULTIPLE LOCATIONS | RA |
| ** SHEPHERD FIELD, WV (AF) | | | |
| SITE | 1 | DRAINAGE AREA | RI/FS |
| SITE | 2 | SHIPPING/RECEIVING AREA | RI/FS |
| SITE | 3 | FIRE TRAINING AREA | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|------------------------------------|----|-------------------------------|---------|
| ** SPARREVOHN LRRS, AK (AF) | | | |
| SITE | 1 | DUMP AREAS | RI |
| SITE | 2 | SPILL 1 | RI |
| SITE | 3 | LANDFILL 1 | RI |
| SITE | 4 | WASTE ACCUMULATION AREA | RI |
| SITE | 5 | SPILL 2 | RI |
| SITE | 6 | TRANSMITTER ROAD | RI |
| SITE | 7 | ROAD OILING | RI |
| SITE | 8 | WHITE ALICE SITE | RI/RA |
| ** STEWART ANG, NY (AF) | | | |
| SITE | 1 | LANDFILL | RI/FS |
| SITE | 2 | PESTICIDE BURIAL SITE | RI/RA |
| ** SUFFOLK ANG, NY (AF) | | | |
| SITE | 1 | FIRE TRAINING PIT | RI/FS |
| SITE | 2 | AREA AJACENT TO PARKING LOT | RI/FS |
| SITE | 3 | FORMER HW STORAGE BLDG 358 | RI/FS |
| SITE | 4 | CURRENT HW STORAGE BLDG 282 | RI/FS |
| SITE | 5 | AIRCRAFT REFUELING APRON | RI/FS |
| SITE | 6 | OPEN DITCH AREA | RI/FS |
| ** TATALINA LRRS, AK (AF) | | | |
| SITE | 1 | LRRS | RA |
| SITE | 16 | WHITE ALICE SITE | RA |
| ** TINKER, OK (AF) | | | |
| SITE | 1 | LANDFILL 2 | RI |
| SITE | 3 | BLDG 3001 | RI |
| SITE | 4 | 3108 AREA RAP | RI |
| SITE | 5 | CRUTCHO KULHMAN AND ELM CREEK | RI |
| SITE | 6 | LANDFILL 4 | RI |
| SITE | 7 | LANDFILL 6 | RI |
| SITE | 8 | EAST SOLDIERS CREEK | RI/RA |
| SITE | 9 | FDTA 1 | RI |
| SITE | 10 | IWTP TANKS | RI |
| SITE | 11 | POL TANK FARM/AUST | RI |
| SITE | 12 | WELLS 18 AND 19 | RI |
| SITE | 13 | FDTA 2 | RI |
| SITE | 14 | LANDFILL 1 | RI |
| SITE | 15 | LANDFILL 5 | RI |
| SITE | 16 | FACILITY 1123 | RI |
| SITE | 17 | RWDS 1022E | RI |
| SITE | 18 | RWDS 201S | RI |
| SITE | 19 | RWDS 62598 | RI |
| SITE | 20 | ALL SITES UNSPECIFIED NUMBER | RI |
| SITE | 21 | LANDFILL NO. 3 | RI |
| SITE | 22 | INDUSTIAL WASTE PIT 1 | RI |
| SITE | 23 | INDUSTRIAL WASTE PIT 2 | RI |
| ** TRAVIS, CA (AF) | | | |
| SITE | 1 | STP SLUDGE DISPOSAL | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|-----------------------------------|----|----------------------------------|---------|
| SITE | 2 | OLD SPILLAGE | RI |
| SITE | 3 | STP INACTIVE OXIDATION POND | RI |
| SITE | 4 | FPTA 1 | RI |
| SITE | 5 | FPTA 2 | RI |
| SITE | 6 | FPTA 3 | RI |
| SITE | 7 | FPTA 4 | RI |
| SITE | 8 | DISPOSAL SITE 1 | RI |
| SITE | 9 | DISPOSAL SITE 3 | RI |
| SITE | 10 | JP-4 SPILL | RI/RA |
| SITE | 11 | LANDFILL 1 | RI |
| SITE | 12 | LANDFILL 2 | RI |
| SITE | 13 | LANDFILL 3 | RI |
| SITE | 14 | SOLVENT SPILL | RI |
| SITE | 20 | OIL SPILL | RI |
| SITE | 30 | UNION CIRCLE STORM SEWER SYSTEM | RI |
| SITE | 31 | RD-1 RADIOACTIVE WASTE BURIAL | RI |
| SITE | 32 | RD-2 RADIOACTIVE WASTE BURIAL | RI |
| SITE | 33 | UNDERGROUND STORAGE TANKS | RALTM |
| ** TYNDALL AFB, FL (AF) | | | |
| SITE | 1 | SEWAGE PLANT LANDFILL | RI |
| SITE | 5 | SPRAY FIELD LANDFILL | RI |
| SITE | 6 | SOUTHEAST RUNWAY BURIAL SITE | RI |
| SITE | 7 | ZONE 8 "6000" AREA LANDFILL | RI |
| SITE | 8 | ZONE 1 POL AREA A FUEL SUPPLY | RI |
| SITE | 9 | ZONE 9 POL AREA B FUEL SUPPLY | RI |
| SITE | 11 | ZONE 6 HIGHWAY 98 FOTA | RI |
| SITE | 12 | ZONE 4 AAFES SERVICE STATION | RI |
| SITE | 13 | ZONE 5 SMALL ARMS REPAIR | RI |
| SITE | 14 | ZONE 2 LYNN HAVEN OFSP | RI |
| SITE | 15 | ZONE 7 SE EXTENSION BURIAL SITE | RI |
| ** TYNDALLAFB, FL (AF) | | | |
| SITE | 10 | ZONE 10 SHELL BANK FOTA | RI |
| ** VANCE AFB, OK (AF) | | | |
| SITE | 1 | CHEMICAL DISPOSAL PIT | FS |
| SITE | 2 | UST FUEL TEST CELL | FS |
| SITE | 3 | TANK FARM LANDFILL | FS |
| SITE | 7 | SITE 7 | FS |
| SITE | 8 | SITE 8 | FS |
| SITE | 9 | SITE 9 | FS |
| SITE | 10 | AUX FIRE TRAINING AREA | FS |
| SITE | 11 | FIRE FIGHTER TRAINING AREA | FS |
| SITE | 12 | EAST BOUNDARY LANDFILL | FS |
| SITE | 13 | SOUTHEAST LANDFILL | FS |
| SITE | 14 | AQUA/AVGAS SYSTEM | FS |
| SITE | 15 | STORAGE TANK AREA 110 | FS |
| SITE | 16 | HAZARDOUS WASTE ACCUMULATION PIT | FS |
| SITE | 17 | TANK SLUDGE DISPOSAL AREA | FS |
| ** VANDENBERG AFB, CA (AF) | | | |
| SITE | 1 | CS 2 | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 88)**

| Site Name | | Description | Project |
|----------------------------|----|---------------------------------|---------|
| SITE | 2 | LF 2 | RI |
| SITE | 3 | LF 5 | RI |
| SITE | 4 | SITE 3 CHEMICAL DISPOSAL | RI |
| SITE | 5 | SITE 4 CHEMICAL DISPOSAL | RI |
| SITE | 6 | AUTA | RI |
| SITE | 7 | SITE 5 CHEMICAL DISPOSAL | RI |
| SITE | 8 | SITE 6 CHEMICAL DISPOSAL | RI |
| SITE | 9 | SITE 7 CHEMICAL DISPOSAL | RI |
| SITE | 10 | SITE 8 CHEMICAL DISPOSAL | RI |
| SITE | 11 | SITE 9 CHEMICAL DISPOSAL | RI |
| SITE | 12 | LF 3A | RI |
| SITE | 13 | SITE 1 CHEMICAL DISPOSAL | RI |
| SITE | 14 | FTA-1 | RI |
| SITE | 15 | LF-1 | RI |
| SITE | 16 | SITE DRUM DISPOSAL | RI |
| SITE | 17 | LF-11 | RI |
| ** VOLK FIELD ANG, WI (AF) | | | |
| SITE | 7 | LANDFILL C | RI/FS |
| ** VOLK FIELD ANG, WI (AF) | | | |
| SITE | 5 | KC 97 CRASH SITE | RI/FS |
| ** VOLK FIELD ANG, WI (AF) | | | |
| SITE | 1 | CHRONIC FUEL SPILL SITE | RI/FS |
| SITE | 2 | JP-4 SPILL SITE | RI/FS |
| SITE | 3 | FIRE TRAINING AREA | RI/FS |
| SITE | 4 | TRANSFORMER FLUID DISPOSAL SITE | RI/FS |
| SITE | 6 | MUNITIONS BURIAL SITE | RI/FS |
| SITE | 8 | FUEL SPILL | RI/FS |
| SITE | 9 | LANDFILL A | RI/FS |
| ** WAKE ISLAND, TT (AF) | | | |
| SITE | 1 | 1500 LIQUID FUEL STORAGE AREA | RI |
| SITE | 2 | SITE 7 | RI |
| SITE | 3 | 1800 LIQUID FUEL STORAGE | RI |
| SITE | 4 | 1700 LIQUID FUEL STORAGE | RI |
| SITE | 5 | SITE 13 | RI |
| SITE | 6 | SITE 14 | RI |
| SITE | 7 | SITE 10 | RI |
| SITE | 8 | SITE 9 | RI |
| SITE | 9 | SITE 4 | RI |
| SITE | 10 | SITE 5 | RI |
| SITE | 11 | SITE 8 | RI |
| SITE | 12 | SITE 11 | RI |
| SITE | 13 | NO. LNDFL FTA | RI |
| SITE | 14 | SITE 12 | RI |
| SITE | 15 | SITE 6 | RI |
| SITE | 16 | SITE 15 | RI |
| ** WESTOVER, MA (AF) | | | |
| SITE | 1 | SANITARY LANDFILL B | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|-----------|----|---------------------------------|---------|
| SITE | 2 | SANITARY LANDFILL A | RI |
| SITE | 3 | CHRISTMAS TREE FDTA | RI |
| SITE | 4 | RADIOACTIVE WASTE SITE | RI |
| SITE | 5 | NORTH FDTA | RI |
| SITE | 6 | STP AREA | RI |
| SITE | 7 | FACILITY 900 LEACHING PIT | RI |
| SITE | 8 | CURRENT FDTA | RI |
| SITE | 11 | BATTERY SHOP LEACHING PIT | RI |
| SITE | 15 | INDUSTIAL WASTE TREATMENT PLANT | RI |

**** WILLIAMS AFB, AZ (AF)**

| | | | |
|------|----|----------------------------------|----|
| SITE | 1 | SURFACE DRAINAGE SYSTEM NW | RI |
| SITE | 2 | FPTA 2 | RI |
| SITE | 3 | HAZARDOUS MAT. STRAGE AREA 1 | RI |
| SITE | 4 | FPTA 1 | RI |
| SITE | 5 | LANDFILL | RI |
| SITE | 6 | BLDG 548 | RI |
| SITE | 8 | RADIOACTIVE MATERIAL BURIAL SITE | RI |
| SITE | 9 | LIQUID FUELS STORAGE AREA | RI |
| SITE | 10 | PESTICIDE BURIAL SITE | RI |
| SITE | 20 | SURFACE DRAINAGE SYSTEM SW | RI |

**** WILLOW GROVE ARF, PA (AF)**

| | | | |
|------|---|-------------------------|----|
| SITE | 1 | HEATING PLANT | RI |
| SITE | 2 | OPEN WASTE STORAGE YARD | FS |
| SITE | 3 | PONDING AREA | FS |
| SITE | 4 | POL AREA | FS |
| SITE | 5 | OLD WELL HOUSE | RI |
| SITE | 6 | WASHRACK AREA | RI |
| SITE | 7 | WASTE OIL STORAGE AREA | RI |

**** WRIGHT PATTERSON AFB, OH (AF)**

| | | | |
|------|----|-----------------------------|-------|
| SITE | 30 | DEACTIVATED NUCLEAR REACTOR | RI/FS |
|------|----|-----------------------------|-------|

**** WRIGHT-PATTERSON AFB, OH (AF)**

| | | | |
|------|----|-------------------------|-------|
| SITE | 1 | COAL STORAGE PILE | RI |
| SITE | 2 | AREAS A, B, AND C | RI |
| SITE | 3 | CENTRAL HEAT PLANT 1 | RI |
| SITE | 4 | CENTRAL HEATING PLANT 2 | RI |
| SITE | 5 | CENTRAL HEATING PLANT 3 | RI |
| SITE | 6 | CENTRAL HEATING PLANT 4 | RI |
| SITE | 7 | CENTRAL HEATING PLANT 5 | RI |
| SITE | 8 | LANDFILL 1 | RI |
| SITE | 9 | LANDFILL 2 | RI |
| SITE | 10 | LANDFILL 3 | RI |
| SITE | 11 | BURIAL SITE 1 | RI/FS |
| SITE | 12 | BURIAL SITE 2 | RI/FS |
| SITE | 13 | FT AREA 2 | RI/FS |
| SITE | 14 | LF 5 | RI/FS |
| SITE | 15 | LANDFILL 8 | RI |
| SITE | 16 | LANDFILL 9 | RI/FS |
| SITE | 17 | LANDFILL 10 | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

| Site Name | | Description | Project |
|------------------------|----|-------------------------------|---------|
| SITE | 18 | LANDFILL 11 | RI |
| SITE | 19 | LANDFILL 12 | RI/RA |
| SITE | 20 | FDTA 1 | RI |
| SITE | 21 | UNDERGROUND TANKS AREA B | RI/FS |
| SITE | 22 | FDTA 3 | RI |
| SITE | 23 | UNDERGROUND TANKS AREA C | RI/FS |
| SITE | 24 | RADIOACTIVE WASTE BURIAL SITE | RI/FS |
| SITE | 25 | SPILL 2 | RI |
| SITE | 26 | SPILL 3 | RI |
| SITE | 30 | LANDFILL 13 | RI |
| ** WURTSMITH, MI (AF) | | | |
| SITE | 1 | MPA OG TANKS | RA |
| SITE | 2 | AF BEACH COMPLEX | RA |
| SITE | 4 | SP-2 | RA |
| SITE | 5 | SP-5 | RA |
| SITE | 6 | SP-7 | RA |
| ** YOUNGSTOWN, OH (AF) | | | |
| SITE | 1 | PAR COURSE DRUM STORAGE | RI |
| SITE | 2 | WASTE OIL SOLVENT CORRAL | RI |
| SITE | 3 | POL LEAD SLUDGE DISPOSAL AREA | RI |
| SITE | 4 | TRANSFORMER STORAGE AREA | RI |

**DEFENSE
LOGISTICS
AGENCY**

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 88)**

| Site Name | Description | Project |
|---|---|---------|
| ** DDMT MEMPHIS, TN (DEFENSE LOGISTICS AGENCY) | | |
| SITE 1 | CLEAN-UP HM RECOUPMENT AREA, REMOVE DIOX | RA |
| ** DDOU OGDEN, UT (DEFENSE LOGISTICS AGENCY) | | |
| SITE 1 | FORMER LANDFILLS (CONTRACT ADMIN) | RI/FS |
| ** DDTG TRACY, CA (DEFENSE LOGISTICS AGENCY) | | |
| SITE 1 | ON-SITE SOIL ANALYSIS, WELLS, BORINGS, ETC. | RI/FS |
| ** DFSC OZOL/VINE HILL, CA (DEFENSE LOGISTICS AGENCY) | | |
| SITE 3 | OFF-SITE CLEAN-UP | RI/FS |
| ** DFSP CHARLESTON, SC (DEFENSE LOGISTICS AGENCY) | | |
| SITE 1 | OFF-SITE WELLS, BORINGS, SOIL ANALYSIS | RI/FS |
| ** DFSP NEWINGTON, NH (DEFENSE LOGISTICS AGENCY) | | |
| SITE 1 | WELLS AND BORINGS | RI/FS |
| ** DFSP OZOL, CA (DEFENSE LOGISTICS AGENCY) | | |
| SITE 1 | CONTRACT ADMIN. | RI/FS |
| ** DFSP SAN PEDRO, CA (DEFENSE LOGISTICS AGENCY) | | |
| SITE 1 | TANK FARM WELLS, BORINGS AND ANALYSIS | RI/FS |
| SITE 2 | WHARF WELLS, BORINGS AND ANALYSIS | RI/FS |
| ** DGSC RICHMOND, VA (DEFENSE LOGISTICS AGENCY) | | |
| SITE 1 | SOIL BORINGS, SAMPLING AND FINAL REPORT | RI/FS |

APPENDIX B

STATE LISTING

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

ALASKA

| Site Name | | Description | Projects |
|---------------------------------------|----|---------------------------|----------|
| ** FORT WAINWRIGHT (ARMY) | | | |
| SITE | 2 | OLD DRUM STORAGE AREA | RI/FS |
| SITE | 3 | FAMILY HOUSING AREA | RI/FS |
| SITE | 4 | COAL PILE | RI/FS |
| ** ALASKAN DEWLINE (AIR FORCE) | | | |
| SITE | 1 | BAR-M 1 | RI |
| SITE | 2 | BAR M 2 | RI |
| SITE | 3 | BAR M 3 | RI |
| SITE | 4 | BAR M 4 | RI |
| SITE | 8 | BAR M 8 | RI |
| SITE | 9 | BAR M 9 | RI |
| SITE | 12 | BAR M 12 | RI |
| SITE | 13 | POW-3 | RI |
| SITE | 16 | POW-2 16 | RI |
| SITE | 17 | POW-2 17 | RI |
| SITE | 20 | POW-2 20 | RI |
| SITE | 25 | POW-1 25 | RI |
| SITE | 28 | POW-1 28 | RI |
| SITE | 29 | POW-1 29 | RI |
| SITE | 31 | POW-1 31 | RI |
| SITE | 32 | POW-1 32 | RI |
| SITE | 37 | LIZ 3 37 | RI |
| SITE | 38 | LIZ 3 38 | RI |
| SITE | 39 | LIZ 3 39 | RI |
| SITE | 40 | LIZ 2 40 | RI |
| SITE | 43 | LIZ 2 43 | RI |
| SITE | 44 | LIZ 2 44 | RI |
| ** CAMPION LRRS (AIR FORCE) | | | |
| SITE | 1 | LANDFILL 1 | RU/RA |
| SITE | 2 | LANDFILL 2 | RU/RA |
| SITE | 3 | SPILL 1 | RU/RA |
| SITE | 4 | LRRS | RU/RA |
| SITE | 5 | WASTE ACCUMULATION 1 | RU/RA |
| SITE | 6 | WASTE ACCUMULATION 2 | RU/RA |
| SITE | 7 | WHITE ALICE SITE | RU/RA |
| ** CAPE NEWENHAM (AIR FORCE) | | | |
| SITE | 1 | WASTE ACCUMULATION AREA 2 | RA |
| SITE | 3 | DUMP AREA | RA |
| SITE | 4 | ROAD OILING | RA |
| SITE | 5 | WASTE ACCUMULATION 3 | RA |
| SITE | 6 | LANDFILL 1 | RA |
| SITE | 7 | WHITE ALICE SITE | RA |
| ** CLEAR AFB (AIR FORCE) | | | |
| SITE | 1 | PAST LANDFILL | LFM |
| SITE | 2 | PAST LANDFILL | LFM |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

ALASKA

| Site Name | | Description | Project |
|-------------------------------------|----|--|---------|
| SITE | 3 | CURRENT LANDFILL | LTM |
| SITE | 4 | #4 LANDFILL PRIOR TO 1959 | LTM |
| SITE | 5 | COAL STORAGE | LTM |
| SITE | 6 | LEACHATE FIELD SEPTIC TANK | LTM |
| SITE | 7 | FUEL SPILL | LTM |
| SITE | 8 | STORAGE TANKS-LUST | LTM |
| SITE | 10 | RADIOACTIVE MATERIAL STORAGE YARD | LTM |
| SITE | 11 | FOTA | LTM |
| SITE | 13 | PARTIALLY FILLED DRUMS | LTM |
| SITE | 14 | CONSTRUCTION CAMP DISPOSAL AREA | LTM |
| ** COLD BAY LRAS (AIR FORCE) | | | |
| SITE | 1 | SPILL | RI |
| SITE | 2 | LANDFILL | RI |
| SITE | 3 | ROAD OILING | RI |
| SITE | 4 | LRA | RI |
| ** EIELSON AFB (AIR FORCE) | | | |
| SITE | 1 | ORIG. BASE LNOFL | RI |
| SITE | 2 | OLD BASE LNOFL | RI |
| SITE | 3 | CURRENT BASE LNOFL | RI |
| SITE | 4 | FOTA (PAST) | RI |
| SITE | 5 | FOTA (PRESENT) | RI |
| SITE | 6 | E 2 POL STOR | RI |
| SITE | 8 | FUEL SATURATED AREA | RI |
| SITE | 9 | E 4 DIESEL FUEL SPILL | RI |
| SITE | 10 | MULTIPURPOSE FUEL LINE | RI |
| SITE | 11 | MOGAS FUEL SPILL | RI |
| SITE | 13 | CANOL PIPELINE SPILL | RI |
| SITE | 14 | FUEL SATURATED AREA. OLD BOILER | RI |
| SITE | 15 | JP 4 FUEL LINE SPILL | RI |
| SITE | 16 | REFUELING LOOP | RI |
| SITE | 17 | SEWAGE TREATMENT SPILL POND | RI |
| SITE | 18 | ASPHALT MIXING AREA | RI |
| SITE | 19 | DRUM STORAGE SITE. ASPHALT MIXING AREA | RI |
| SITE | 20 | WASTE POL MT | RI |
| SITE | 21 | ASPHALT LAKE | RI/RA |
| SITE | 22 | AUTO HOBBY SHOP | RI |
| SITE | 23 | OLD ARMY EOD AREA | RI |
| SITE | 24 | OLD ARMY LNOFL | RI/RA |
| SITE | 25 | OLD LNOFL | RI |
| SITE | 26 | E 2 RAILROAD JP 4 SPILL | RI |
| SITE | 27 | OILING QUARRY RD | RI |
| SITE | 28 | DRUM STORAGE ASPHALT MIXING | RI |
| SITE | 29 | OILING IND. DR | RI |
| SITE | 32 | OILING MANHOLE RD | RI |
| SITE | 34 | OILING GRAVEL HAUL RD | RI |
| SITE | 35 | E 6 FUEL TANK SLUDGE | RI |
| SITE | 36 | E 10 FUEL TANK SLUDGE | RI |
| SITE | 37 | E 11 FUEL TANK SLUDGE | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

ALASKA

| Site Name | | Description | Project |
|-----------|----|--------------------|---------|
| SITE | 38 | DRUM BURIAL SITE | RI/RA |
| SITE | 39 | SLUDGE DRYING BEDS | RI |
| SITE | 41 | MISC. DISP. AREA | RI |

**** ELMENDORF AFB (AIR FORCE)**

| | | | |
|------|----|--------------------------|----|
| SITE | 1 | IS-8 | RI |
| SITE | 2 | D4 | RI |
| SITE | 4 | IS-2 | RI |
| SITE | 5 | D-16 | RI |
| SITE | 6 | IS-3 | RI |
| SITE | 7 | IS-4 | RI |
| SITE | 8 | IS-5 | RI |
| SITE | 9 | SP-6 | RI |
| SITE | 10 | 43 450 | RI |
| SITE | 11 | SP-1 | RI |
| SITE | 12 | SP-4 | RI |
| SITE | 13 | D-13 | RI |
| SITE | 14 | SP-13 | RI |
| SITE | 15 | D-3 | RI |
| SITE | 16 | SP-5 | RI |
| SITE | 17 | D-5 | RI |
| SITE | 18 | SP-7 | RI |
| SITE | 20 | SP-11 | RI |
| SITE | 21 | S-6 | RI |
| SITE | 23 | D-7 | RI |
| SITE | 24 | FY-1 | RI |
| SITE | 25 | SP-2 | RI |
| SITE | 27 | IS-1 | RI |
| SITE | 28 | SP-15 | RI |
| SITE | 29 | IS-7 | RI |
| SITE | 30 | BLDG 11 435 | RA |
| SITE | 31 | SP-14 | RI |
| SITE | 31 | D-10 | RI |
| SITE | 32 | D-17 | RI |
| SITE | 33 | D-17 | RI |
| SITE | 33 | D-5 POL SLUDGE | RI |
| SITE | 34 | BLDG 22 009 HAZ MAT STOR | RI |
| SITE | 35 | FIRE ISLAND | RI |

**** FORT YUKON LRRS (AIR FORCE)**

| | | | |
|------|---|--------------------|-------|
| SITE | 1 | WASTE ACCUMULATION | RI |
| SITE | 2 | ROAD OILING | RI |
| SITE | 3 | LANDFILL 1 | RI |
| SITE | 4 | OL DISCHARGE | RI |
| SITE | 5 | WHITE ALICE SITE | RI |
| SITE | 6 | LRRS | RI/RA |

**** GALENA AIRPORT (AIR FORCE)**

| | | | |
|------|---|---------|----|
| SITE | 1 | SPILL 1 | RI |
| SITE | 2 | SPILL 2 | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

ALASKA

| Site Name | | Description | Project |
|--|----|--|---------|
| SITE | 3 | SPILL 3 | RI |
| SITE | 4 | FPTA | RI |
| SITE | 5 | WASTE ACCUMULATION | RI |
| SITE | 6 | SPILL/LEAK 4&5 AND POL TANK FARM | RI |
| ** GRANITE MOUNTAIN (AIR FORCE) | | | |
| SITE | 1 | WASTE ACCUMULATION | RA |
| ** INDIAN MOUNTAIN LRBS (AIR FORCE) | | | |
| SITE | 3 | LANDFILL 3,4 AND WASTE ACCUMULATION 4 | RURA |
| SITE | 5 | SPILL 2,5,6,7,9,10 AND WASTE ACC. 6 | RURA |
| SITE | 11 | LANDFILL 1 | RI |
| SITE | 12 | WASTE ACCUMULATION AREA 1 | RURA |
| SITE | 13 | WASTE ACCUMULATION AREA 3 AND SPILL 4,11 | RURA |
| SITE | 14 | WASTE ACCUMULATION AREA 5 | RURA |
| SITE | 16 | DUMP AREAS | RI |
| SITE | 17 | LANDFILL 2 | RI |
| SITE | 18 | WHITE ALICE SITE | RURA |
| ** MURPHY DOME LRBS (AIR FORCE) | | | |
| SITE | 1 | ROAD OILING | RI |
| SITE | 2 | LANDFILL 1 | RI |
| SITE | 3 | WASTE ACCUMULATION AREA 2 | RI |
| SITE | 4 | WASTE ACCUMULATION AREA 3 | RI |
| SITE | 5 | LANDFILL 2 | RI |
| SITE | 6 | WHITE ALICE | RI |
| SITE | 7 | WASTE ACCUMULATION AREA 1 | RI |
| SITE | 8 | LEAK/WAC | RI |
| ** OCEAN CAPE (AIR FORCE) | | | |
| SITE | 1 | RADIO RELAY SITE | RA |
| ** PORT KENEDY (AIR FORCE) | | | |
| SITE | 1 | PCB SPILL | RA |
| ** SNEYKA (AIR FORCE) | | | |
| SITE | 1 | MULTIPLE LOCATIONS | RA |
| ** SPANNEVON LRBS (AIR FORCE) | | | |
| SITE | 1 | DUMP AREAS | RI |
| SITE | 2 | SPILL 1 | RI |
| SITE | 3 | LANDFILL 1 | RI |
| SITE | 4 | WASTE ACCUMULATION AREA | RI |
| SITE | 5 | SPILL 2 | RI |
| SITE | 6 | TRANSMITTER ROAD | RI |
| SITE | 7 | ROAD OILING | RI |
| SITE | 8 | WHITE ALICE SITE | RURA |
| ** TATALINA LRBS (AIR FORCE) | | | |
| SITE | 1 | LRBS | RA |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

ALASKA

| Site Name | Description | Project |
|-----------|------------------|---------|
| SITE 16 | WHITE ALICE SITE | RA |

ALABAMA

| Site Name | Description | Project |
|---|-----------------------------|---------|
| ** ALABAMA AAP (ARMY) | | |
| SITE 10 | MAGAZINE AREA | RA |
| SITE 11 | OLD BURNING GROUNDS | RA |
| SITE 12 | SMALL ARMS BALLASTICS RANGE | RA |
| SITE 13 | OLD WELL | RA |
| SITE 14 | PROPELLANT SHIPPING HOUSES | RA |
| SITE 15 | SITES 6-24 | RA |
| ** ANNISTON AD (ARMY) | | |
| SITE 1 | BLDG 114 | RA |
| SITE 2 | Z 1 | RA |
| SITE 3 | BLDG 130 | RA |
| SITE 4 | LANDFILL (SOUTH) | RA |
| SITE 20 | OTYNER (OPTION OF GWTS) | RA |
| ** FORT MCCLELLAN (ARMY) | | |
| SITE 4 | RANGE T 24A | RUFFS |
| SITE 5 | RANGE T 38 | RUFFS |
| SITE 6 | RANGE I | RUFFS |
| SITE 7 | RANGE J | RUFFS |
| SITE 8 | RANGE L | RUFFS |
| SITE 9 | RANGE K | RUFFS |
| SITE 10 | FORMER LANDFILL | RUFFS |
| SITE 11 | FORMER LANDFILL | RUFFS |
| SITE 12 | FORMER LANDFILL | RUFFS |
| ** BIRMINGHAM ANG (AIR FORCE) | | |
| SITE 1 | S 1 | RUFFS |
| SITE 2 | S 2 | RUFFS |
| SITE 3 | S 3 | RUFFS |
| SITE 4 | S 4 | RUFFS |
| ** DANNIELLY FIELD ANG (AIR FORCE) | | |
| SITE 1 | S 1 | RUFFS |
| SITE 2 | S 2 | RUFFS |
| SITE 3 | S 3 | RUFFS |
| SITE 4 | S 4 | RUFFS |
| SITE 5 | S 5 | RUFFS |

ARKANSAS

| Site Name | Description | Project |
|-----------------------------------|-------------|---------|
| ** LITTLE ROCK (AIR FORCE) | | |
| SITE 1 | LANDFILL 2 | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

ARKANSAS

| Site Name | | Description | Project |
|-----------|----|----------------------------|---------|
| SITE | 2 | LANDFILL 1 | RI |
| SITE | 3 | LANDFILL 3 | RI |
| SITE | 4 | LANDFILL 4 | RI |
| SITE | 5 | LANDFILL 5 | RI |
| SITE | 6 | LANDFILL 6 | RI |
| SITE | 7 | LANDFILL 7 | RI |
| SITE | 8 | FPTA | RI |
| SITE | 9 | DISCHARGE PIT | RI |
| SITE | 10 | DROO STORAGE | RI |
| SITE | 11 | POL FUEL SPILL | RI |
| SITE | 12 | BULK FUEL TANK FARM | RI |
| SITE | 13 | FLIGHT LINE FUEL LEAKS | RI |
| SITE | 14 | FORMER CHEMICAL PLANT SITE | RI |
| SITE | 15 | GOLF COURSE AREA | FS |

ARIZONA

| Site Name | | Description | Project |
|--|----|---------------------------------------|---------|
| ** YUMA PROVING GROUND (ARMY) | | | |
| SITE | 1 | LEAD ARSENIC SITE | RA |
| ** MCAS YUMA (NAVY) | | | |
| SITE | 3 | FIRE SCHOOL | RF/FS |
| SITE | 4 | SE SEWAGE LAGOON | RF/FS |
| ** AFB NO. 44 (AIR FORCE) | | | |
| SITE | 1 | FORMER DISPOSAL TRENCHES | RA |
| SITE | 2 | FORMER BURN/ DISPOSAL PIT | RA |
| SITE | 3 | FORMER WASTE DISPOSAL PITS | RA |
| SITE | 4 | FORMER WASTE WATER PONDS | RA |
| SITE | 5 | FORMER SLUDGE DRYING | RA |
| SITE | 6 | UNLINED DITCHES | QA |
| SITE | 7 | NORTH FIRE TRAINING AREA | RA |
| SITE | 8 | SOUTH FIRE TRAINING AREA | RA |
| SITE | 9 | SUBSURFACE PLUME | RA |
| SITE | 10 | WEST FIRE TRAINING AREA | RA |
| SITE | 11 | DIESEL TANK LEAK | RA |
| SITE | 14 | WASTE OIL SPREADING | RA |
| ** DAVIS MONTGOMERY AFB (AIR FORCE) | | | |
| SITE | 1 | FLUSH FARM DRAINAGE DITCH | RI |
| ** LUKE AFB (AIR FORCE) | | | |
| SITE | 1 | WASTE TREATMENT AREA | RI |
| SITE | 2 | PERIMETER ROAD POL WASTE APPLICATIONS | RI |
| SITE | 3 | POL WASTE DISPOSAL TRENCH | RI |
| SITE | 4 | 993 | CTU |
| SITE | 5 | SOUTH FIRE TRAINING AREA | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 88)**

ARIZONA

| Site Name | Description | Project |
|------------------------------------|----------------------------------|---------|
| SITE 6 | NORTH FIRE TRAINING AREA | RI |
| ** WILLIAMS AFB (AIR FORCE) | | |
| SITE 1 | SURFACE DRAINAGE SYSTEM NW | RI |
| SITE 2 | FPTA 2 | RI |
| SITE 3 | HAZARDOUS MAT. STRAGE AREA 1 | RI |
| SITE 4 | FPTA 1 | RI |
| SITE 5 | LANDFILL | RI |
| SITE 6 | BLDG 548 | RI |
| SITE 8 | RADIOACTIVE MATERIAL BURIAL SITE | RI |
| SITE 9 | LIQUID FUELS STORAGE AREA | RI |
| SITE 10 | PESTICIDE BURIAL SITE | RI |
| SITE 20 | SURFACE DRAINAGE SYSTEM SW | RI |

CALIFORNIA

| Site Name | Description | Project |
|--|----------------------|---------|
| ** FORT IRWIN (ARMY) | | |
| SITE 1 | VALLEY DISPOSAL SITE | RI/RA |
| SITE 2 | OB/OD AREA | RI/RA |
| SITE 3 | TROOP LANDFILL | RI/RA |
| SITE 4 | DUCK POND | RI/RA |
| ** FORT ORD (ARMY) | | |
| SITE 11 | FIRE PRATICE AREA | RI/FS |
| SITE 12 | LANDFILL | RI/FS |
| ** HAMILTON ARMY AIR FIELD (ARMY) | | |
| SITE 1 | EXCESS SITE | RI/RA |
| ** PRESIDIO OF MONTEREY (ARMY) | | |
| SITE 3 | DUMP 1 | RI/FS |
| ** RIVERBANK AAP (ARMY) | | |
| SITE 1 | IWTP | RI/RA |
| SITE 2 | SITES 2-10 | RI/RA |
| ** SACRAMENTO AD (ARMY) | | |
| SITE 1 | OXIDATION LAGOON | RI/FS |
| SITE 3 | BURN PIT | RI/FS |
| SITE 4 | UNDERGROUND TANKS | RA |
| ** SHARPE ARMY DEPOT (ARMY) | | |
| SITE 1 | SOUTH BALLOON AREA | RI/RA |
| SITE 2 | NORTH BALLOON AREA | RI/FS |
| SITE 3 | SITES 3-14 | RA |
| ** CBC PORT HUENEME (NAVY) | | |
| SITE 1 | NCEL STOR. YD | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

CALIFORNIA

| Site Name | | Description | Project |
|-------------------------------------|----|-------------------------------------|---------|
| SITE | 12 | EARTH MOVING AREA | RI/FS |
| SITE | 13 | HARBOR AND CANALS | RI/FS |
| SITE | 14 | PROPOSED NTC BLDG SITE | RI/FS |
| SITE | 15 | CED PCB SPILLS | RI/FS |
| SITE | 17 | MUSE PCB SPILL | RI/FS |
| SITE | 19 | TRANSFORMER STOR. | RI/FS |
| SITE | 20 | HW MAG. | RI/FS |
| ** MCAS EL TORO (NAVY) | | | |
| SITE | 1 | ORDNANCE DISPOSAL AREA | RI/FS |
| SITE | 2 | COMM. STATION LNDFL | RI/FS |
| SITE | 3 | CRASH CREW PIT NO. 1 | RI/FS |
| SITE | 5 | TRANSFORMER STOR. AREA | RI/FS |
| SITE | 9 | BATTERY ACID DISP. PIT | RI/FS |
| SITE | 9 | CRASH CREW PIT NO 2 | RI/FS |
| SITE | 11 | MAGAZINE RD LANDFILL | RI/FS |
| SITE | 14 | ORIGINAL LANDFILL | RI/FS |
| SITE | 16 | PERIMETER RD LANDFILL | RI/FS |
| ** MCAS TUSTIN (NAVY) | | | |
| SITE | 1 | MOFFETT TRENCHES & CRASH PIT | RI/FS |
| SITE | 2 | DRAINAGE NO 1 | RI/FS |
| SITE | 3 | GROUND ADJACENT TO ARRON | RI/FS |
| SITE | 5 | OIL DISPOSAL AREA | RI/FS |
| SITE | 7 | PAINT STRIPPER DISPOSAL AREA | RI/FS |
| SITE | 10 | DRUM STORAGE AREA NO 2 | RI/FS |
| SITE | 12 | DRUM STORAGE AREA NO 3 | RI/FS |
| ** MCB CAMP PENDLETON (NAVY) | | | |
| SITE | 1 | PEST CONTROL WASHRACK DRAIN DITCH | RI/FS |
| SITE | 3 | MCAF DRAINAGE DITCH | RI/FS |
| SITE | 5 | FIRE FIGHTING DRILL FIELD | RI/FS |
| SITE | 6 | OPDO SCRAP YARD | RI/FS |
| SITE | 8 | LAS PULGAS LANDFILL | RI/FS |
| ** MCLB BARSTOW (NAVY) | | | |
| SITE | 1 | IND. WASTE DISPOSAL AREA | RI/FS |
| SITE | 2 | PESTICIDE STOR & WASHOUT | RI/FS |
| SITE | 3 | FUEL DISPOSAL AREA | RI/FS |
| SITE | 4 | SLUDGE WASTE AREA, YERMO | RI/FS |
| SITE | 5 | INDUSTRIAL WASTE TREATMENT AREA | RI/FS |
| SITE | 6 | PCB STORAGE AREA | RI/FS |
| SITE | 7 | LOW LEVEL RADIOLOGICAL STORAGE AREA | RI/FS |
| SITE | 8 | CHEMICAL STORAGE AREA | RI/FS |
| ** MAB CORONADO (NAVY) | | | |
| SITE | 1 | OLD REFUSE DISP/BURN AREA | RI/FS |
| SITE | 2 | SANDBLAST GRIT DISP AREA | RI/FS |
| SITE | 3 | FIRE FIGHTING TRAINING AREA | RI/FS |
| SITE | 4 | OILED AREAS | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

CALIFORNIA

| Site Name | | Description | Project |
|----------------------------------|----|---------------------------------|---------|
| ** NAS ALAMEDA (NAVY) | | | |
| SITE | 1 | WEST BEACH LANDFILL | RI/FS |
| SITE | 2 | 1943,1956 DISPOSAL ARE | RI/FS |
| SITE | 3 | SEAPLANE LAGOON | RI/FS |
| SITE | 4 | AREA 97 | RI/FS |
| SITE | 5 | BLDG 301 AND 389 | RI/FS |
| SITE | 6 | CANS C-2 AREA | RI/FS |
| SITE | 7 | BLDG 360 | RI/FS |
| ** NAS LEMOORE (NAVY) | | | |
| SITE | 1 | OPERATION AREA OPEN DITCH | RI/FS |
| SITE | 2 | FIRE FIGHTING SCHOOL | RI/FS |
| SITE | 3 | HOUSING AREA OPEN DITCH | RI/FS |
| SITE | 4 | LANDFILL | RI/FS |
| SITE | 5 | FIRE FIGHTING TRAINING FACILITY | RI/FS |
| SITE | 6 | BLDG 3 TRANSFORMER SPILL | RI/FS |
| SITE | 7 | BLDG 468 TRANSFORMER SPILL | RI/FS |
| SITE | 11 | BLDG 752 PEST. RINSE | RI/FS |
| SITE | 12 | BLDG 50 PEST RINSE | RI/FS |
| SITE | 13 | OLD FIRE TRAINING AREA | RI/FS |
| SITE | 14 | TRANSFORMER STORAGE AREA | RI/FS |
| ** NAS MIRAMAR (NAVY) | | | |
| SITE | 1 | FUEL FARM OPERATING AREA | RI/FS |
| SITE | 2 | ROSE CANYON | RI/FS |
| SITE | 3 | FISH POND | RI/FS |
| SITE | 4 | SAN CLEMENTE CANYON DISPOSAL | RI/FS |
| SITE | 5 | FIRE FIGHTING DRILL FIELDS | RI/FS |
| ** NSY MARE ISLAND (NAVY) | | | |
| SITE | 1 | LANDFILL | RI/FS |
| SITE | 2 | OIL SUMPS | RI/FS |
| SITE | 3 | BERTHS 4 AND 5 | RI/FS |
| SITE | 4 | 900 AREA | RI/FS |
| SITE | 7 | CONCORD ANNEX | RI/FS |
| SITE | 9 | SLUDGE PONDS | RI/FS |
| SITE | 10 | LEAD OXIDE AREAS | RI/FS |
| ** NWC CHINA LAKE (NAVY) | | | |
| SITE | 1 | G1 EAST DISP AREA | RI/FS |
| SITE | 3 | G-1 RANGE SEPTIC SYS | RI/FS |
| SITE | 7 | PW PESTICIDE RINSE AREA | RI/FS |
| SITE | 12 | MINIDECK | RI/FS |
| SITE | 13 | ARMITAGE FIELD | RI/FS |
| SITE | 14 | ARMITAGE FIELD LEACH POND | RI/FS |
| SITE | 15 | MICHELSON LAB DRAINAGE | RI/FS |
| SITE | 16 | SHORT RD LNDFL | RI/FS |
| SITE | 22 | OILY WASTE DISP AREA | RI/FS |
| SITE | 27 | ER RANGE SEPTIC SYS | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

CALIFORNIA

| Site Name | | Description | Project |
|----------------------------------|----|--------------------------------|---------|
| SITE | 29 | R RANGE SEPTIC SYS | RI/FS |
| SITE | 31 | G-2 RANGE SEPTIC SYS | RI/FS |
| SITE | 32 | PILOT PLANT RD LANDFILL | RI/FS |
| SITE | 34 | NAF DISP. AREA | RI/FS |
| SITE | 40 | GOLF COURSE PESTICIDE RINSE | RI/FS |
| SITE | 41 | LNDFL | RI/FS |
| ** NWS CONCORD (NAVY) | | | |
| SITE | 1 | TIDAL AREA LANDFILL | RI/FS |
| SITE | 2 | COKE PILE SITE | RI/FS |
| SITE | 3 | BURNING AREA | RI/FS |
| SITE | 4 | KINNE BLVD WELLS | RI/FS |
| SITE | 5 | BLACK PIT AT RED ROCK | RI/FS |
| SITE | 6 | K-2 AREA | RI/FS |
| SITE | 9 | G-1 AREA | RI/FS |
| SITE | 11 | R AREA DISPOSAL SITE | RI/FS |
| SITE | 13 | KILN SITE | RI/FS |
| SITE | 14 | ALLIED SITE A | RI/FS |
| SITE | 16 | ALLIED SITE B | RI/FS |
| SITE | 25 | FROID AND TAYLOR RD DISPOSAL | RI/FS |
| SITE | 26 | WOOD HOGGER | RI/FS |
| ** NWS SEAL BEACH (NAVY) | | | |
| SITE | 1 | WW SETTLING POND | RI/FS |
| SITE | 2 | OIL ON ROADS | RI/FS |
| SITE | 4 | BATTERY SHOP DRAINAGE | RI/FS |
| SITE | 6 | OIL ISLAND | RI/FS |
| SITE | 7 | BLDG 437 QUENCH WATER DISPOSAL | RI/FS |
| SITE | 19 | EVAP POND | RI/FS |
| SITE | 19 | BLDG 241 DISP PIT | RI/FS |
| SITE | 22 | EXPLOSIVES BURNING GROUND | RI/FS |
| SITE | 24 | STATION LANDFILL | RI/FS |
| ** PMTC POINT MUGU (NAVY) | | | |
| SITE | 1 | OLD SHOPS AREA | RI/FS |
| SITE | 2 | PUBLIC WORKS STOR YARD | RI/FS |
| SITE | 3 | OLD "6 AREA" SHOPS | RI/FS |
| SITE | 4 | BLDG 311 YARD | RI/FS |
| SITE | 5 | ELECTRIC SUBSTATION 680 | RI/FS |
| SITE | 6 | MAIN BASE FIRE SCHOOL | RI/FS |
| SITE | 7 | LAGOON AND DRAINAGE DITCHES | RI/FS |
| SITE | 8 | LAGOON LANDFILL | RI/FS |
| SITE | 11 | FUEL FARM | RI/FS |
| ** BEALE AFB (AIR FORCE) | | | |
| SITE | 1 | DISCHARGE AREA B | RI |
| SITE | 2 | LANDFILL 3 | RI |
| SITE | 3 | DISCHARGE AREA 1 | RI |
| SITE | 4 | PHOTO WWTP | RI |
| SITE | 5 | PHOTO WASTE INJ. WELL | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

CALIFORNIA

| Site Name | | Description | Project |
|-----------------------------------|----|------------------------------|---------|
| SITE | 6 | FPTA 1&2 | RI |
| SITE | 7 | BATTERY SHOP DRY WELL | RI |
| SITE | 8 | DISCHARGE AREA 3 | RI |
| SITE | 9 | LANDFILL 2 | RI |
| SITE | 10 | DISCHARGE AREA 4 | RI |
| SITE | 11 | DISCHARGE AREA 6 | RI |
| SITE | 12 | DISCHARGE AREA 9 | RI |
| SITE | 13 | DISCHARGE AREA 5 | RI |
| SITE | 14 | DISCHARGE AREA 7 | RI |
| SITE | 15 | DISCHARGE AREA 10 | RI |
| SITE | 16 | LANDFILL 1 | RI |
| SITE | 17 | ORDINANCE DISPOSAL | RI |
| SITE | 18 | BEST SLOUGH | RI |
| SITE | 19 | POL TANK FARM | RI |
| ** CASTLE AFB (AIR FORCE) | | | |
| SITE | 1 | TCE | RI |
| SITE | 2 | LF 1 | RI/RA |
| SITE | 3 | FPTA 1 | RI |
| SITE | 4 | FUEL SPILL 1 | RI |
| SITE | 5 | FUEL SPILL 4 | RI |
| SITE | 6 | FPTA 2 | RI |
| SITE | 7 | TCE SITE 5 | RI |
| SITE | 8 | TCE SITE 7 | RI |
| SITE | 9 | FUEL SPILL 2&3 | RI |
| SITE | 10 | FPTA 3 | RI |
| SITE | 11 | LANDFILL 2 | RI |
| SITE | 12 | LANDFILL 3 | RI |
| SITE | 13 | LANDFILL 4 | RI |
| SITE | 14 | LANDFILL 5 | RI |
| SITE | 15 | DISCHARGE AREA 1 | RI/RA |
| SITE | 16 | DISCHARGE AREA 2 | RI |
| SITE | 16 | DISCHARGE AREA 3 | RI |
| SITE | 17 | DISCHARGE AREA 4 | RI/RA |
| SITE | 18 | DISCHARGE AREA 5 | RI |
| SITE | 19 | DISCHARGE AREA 6 | RI |
| SITE | 20 | DISCHARGE AREA 7 | RI |
| SITE | 21 | DISCHARGE AREA 8 | RI/RA |
| SITE | 22 | PCB SPILLS 1,2,AND 3 | RI |
| SITE | 23 | PCB SPILL 4 | RI |
| SITE | 24 | PCB SPILL 5 | RI |
| SITE | 25 | PCB SPILL 6 | RI |
| SITE | 26 | PCB SPILL 7 | RI |
| SITE | 27 | PCB SPILL 8 | RI |
| SITE | 28 | TCE SITE 1 | RI |
| SITE | 29 | CHEMICAL DISPOSAL PIT NO 4 | RI |
| ** EDWARDS AFB (AIR FORCE) | | | |
| SITE | 1 | TRENCHES AND PITS | RA |
| SITE | 2 | BLDG 1404 LEAKING FUEL TANKS | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

CALIFORNIA

| Site Name | | Description | Project |
|-----------------------------------|----|---------------------------------------|---------|
| SITE | 3 | BLDG 1928 | RI/FS |
| SITE | 14 | MAIN BASE TOXIC WASTE DISPOSAL | RI/RA |
| SITE | 17 | ABANDONED MAIN BASE SANITARY LANDFILL | RI/RA |
| SITE | 18 | ACTIVE MAIN BASE SANITARY LANDFILL | RI/RA |
| SITE | 19 | SOUTH BASE WASTE POL STORAGE PIT | RI/RA |
| SITE | 20 | BERYLLIUM CONTAMINATED EARTH PILE | RI |
| SITE | 21 | INDUSTRIAL WASTE POND | RI |
| SITE | 21 | NPL AREA (ROCKETDYNE AREA) | RI |
| SITE | 22 | RPL SANITARY LANDFILL | RI |
| SITE | 23 | FPTA | RI |
| SITE | 24 | SOUTH BAE AREA | RI |
| SITE | 25 | JP-4 FUEL LINE | RI |
| SITE | 26 | BLDG 1836 | RI |
| SITE | 28 | DRUM STORAGE SUBSITE 1B | RI |
| SITE | 28 | ACID PIT SUBSITE 1C | RI |
| SITE | 30 | DRUM TRECHES SUBSITE 1D | RI |
| SITE | 31 | DEBRIS DUMP SUBSITE 1E | RI |
| SITE | 32 | BLDG 1062 UNDERGROUND MOGAS STORAGE | RI |
| SITE | 33 | ABANDONED TANKS | RI |
| ** GEORGE (AIR FORCE) | | | |
| SITE | 1 | DISPOSAL SITE | RI |
| SITE | 2 | RADIOACTIVE/TOXIC DISPOSAL | RI |
| SITE | 3 | STARTER CARTRIDGE DISPOSAL ARE | RI |
| SITE | 4 | STREET SWEEPING DIS. | RI |
| SITE | 5 | ORIGINAL BASE LANDFILL | RI |
| SITE | 6 | BASE LANDFILL | RI |
| SITE | 7 | M-2 MUNITIONS DISP. | RI |
| SITE | 8 | IND. OUTFALL DITCH 6 | RI |
| SITE | 9 | PEST. AND PAINT BURIAL | RI |
| SITE | 10 | ACID AND OIL BURIAL | RI |
| SITE | 11 | PEST. AND OIL BURIAL | RI |
| SITE | 12 | L-13 BASE LANDFILL | RI |
| SITE | 13 | S-4 FUEL AND OIL BURIAL | RI |
| SITE | 14 | S-5 FOTA | RI |
| SITE | 15 | S-6 ABANDONED FOTA | RI |
| SITE | 16 | S-19 TRANSFORMER STORAGE | RI |
| SITE | 17 | S-20 INDUST. OUTFLL DTCH & STRM DRN | RI |
| SITE | 18 | S-21 STP PERCOLATION PONDS | RI |
| SITE | 19 | S-22 FRENCH DRAIN | RI |
| SITE | 20 | S-23 FRENCH DRAINS | RI |
| SITE | 21 | S-25 SLUDGE DRYING BEDS | RI |
| ** LOS ANGELES (AIR FORCE) | | | |
| SITE | 1 | FUEL SPILL SITE | RI |
| SITE | 2 | PESTICIDE DISPOSAL SITE | FS |
| ** MARCH (AIR FORCE) | | | |
| SITE | 1 | UNCONFIRMED SOLVENT DISPOSAL | RI |
| SITE | 2 | LF-5 | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

CALIFORNIA

| Site Names | | Description | Project |
|------------|----|---------------------------------|---------|
| SITE | 3 | LNDFL 3 | RI |
| SITE | 4 | TCE CONTAMINATION | RI |
| SITE | 5 | TCE CONTAMINATION | RI |
| SITE | 6 | LNDFL 6 | RI |
| SITE | 7 | FPTA 2 | RI |
| SITE | 8 | AIRCRAFT ISO. AREA | RI |
| SITE | 9 | BULK FUEL STOR. | RI |
| SITE | 10 | WASTE OIL PIT | RI |
| SITE | 11 | MAIN OIL/WATER SEPERATION | RI |
| SITE | 12 | FLIGHTLINE DRAINAGE | RI |
| SITE | 13 | FLIGHT LINE SHOP | RI |
| SITE | 14 | CE STOR YD | RI |
| SITE | 15 | LNDFL 1 | RI |
| SITE | 16 | MUNITIONS RESIDENCE BURIAL | RI |
| SITE | 17 | LANDFILL 2 | RI |
| SITE | 18 | LANDFILL 7 | RI |
| SITE | 19 | FPTA 1 | RI |
| SITE | 20 | FPTA 3 | RI |
| SITE | 21 | E. SLUDGE DRYING BEDS | RI |
| SITE | 22 | W. SLUDGE DRYING BEDS | RI |
| SITE | 23 | EFFLUENT POND | RI |
| SITE | 24 | CONDURE EFFLUENT POND | RI |
| SITE | 25 | SWIMMING POOL FILL | RI |
| SITE | 26 | LIQ. FUEL PUMP STATION OVERFLOW | RI |
| SITE | 27 | TANK TRUCK SPILL | RI |
| SITE | 28 | WTP SLUDGE | RI |
| SITE | 29 | ENGINE TEST CELL | RI |
| SITE | 30 | BLDG 422 POL TANKS | RI |
| SITE | 33 | BLDG 422 UNDERGROUND POL TANKS | RI |
| SITE | 35 | ZONE 1 MONITORING | RI |
| SITE | 36 | TCE CONTAM. | RI |

**** MATHER AFB (AIR FORCE)**

| | | | |
|------|----|-----------------------------|----|
| SITE | 1 | DRAINAGE DITCH NO. 3 | RI |
| SITE | 2 | OFF BASE WATER SUPPLY 3 RES | RA |
| SITE | 7 | "7100" AREA DISPOSAL | RI |
| SITE | 20 | ACW SITE NPL 12 | RI |

**** MCCLELLAN (AIR FORCE)**

| | | | |
|------|----|------------------------------------|-------|
| SITE | 1 | BURNING/BURIAL PIT AREA D | RI/RA |
| SITE | 2 | SLUDGE/OIL PIT AREA D | RI/RA |
| SITE | 3 | SLUDGE/BURNING/BURIAL PIT AREA D | RI/RA |
| SITE | 4 | SLUDGE/OIL PIT AREA D | RI/RA |
| SITE | 5 | SLUDGE/OIL SOLVENT BURN PIT AREA D | RI/RA |
| SITE | 6 | OIL BURN PIT AREA D | RI/RA |
| SITE | 7 | SLUDGE/OIL PIT AREA C | RI/RA |
| SITE | 8 | SLUDGE BURIAL PIT AREA C | RI/RA |
| SITE | 9 | BURIAL PIT AREA C | RI/RA |
| SITE | 10 | BURIAL PIT AREA C | RI/RA |
| SITE | 11 | BURIAL PIT AREA C | RI/RA |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

CALIFORNIA

| Site Name | | Description | Project |
|-----------|----|---------------------------------------|---------|
| SITE | 12 | BURIAL PIT AREA C | RI/RA |
| SITE | 13 | BURIAL PIT PLTNG WASTE/SLUDGE AREA C | RI/RA |
| SITE | 14 | BURIAL PIT AREA C | RI/RA |
| SITE | 15 | SODIUM VALVE TRENCH AREA C | RI/RA |
| SITE | 16 | SODIUM VALVE TRENCH AREA C | RI/RA |
| SITE | 17 | BURIAL PIT AREA C | RI/RA |
| SITE | 18 | BURIAL PIT AREA C | RI/RA |
| SITE | 19 | BURIAL PIT AREA C | RI/RA |
| SITE | 20 | SLUDGE/OIL PIT AREA C | RI/RA |
| SITE | 21 | SLUDGE/OIL PIT AREA C | RI/RA |
| SITE | 22 | BURNING/BURIAL PIT AREA C | RI/RA |
| SITE | 23 | BURIAL PIT SW OF AREA C | RI/RA |
| SITE | 24 | BURNING/BURIAL PIT NEAR AREA B | RI/RA |
| SITE | 25 | BURIAL PIT AREA A | RI/RA |
| SITE | 26 | SLUDGE PIT AREA D | RI/RA |
| SITE | 27 | SODIUM VALVE TRENCH AREA D | RI/RA |
| SITE | 28 | CREEK DEBRIS SLUDGE PIT AREA C | RI/RA |
| SITE | 29 | SCRAP MATERIAL BURNER AREA C | RI/RA |
| SITE | 30 | 1155TH SURFACE DISPOSAL SITE AREA B | RI/RA |
| SITE | 31 | REFUSE INCINERATORS SOUTH OF AREA C | RI/RA |
| SITE | 32 | HAZARDOUS WASTE STORAGE AREA C | RI/RA |
| SITE | 33 | INDUSTRIAL SLUDGE LAND FARM AREA D | RI/RA |
| SITE | 34 | WASTE SOLVENT STORAGE TANKS AREA A | RI/RA |
| SITE | 35 | SCRAP METAL BURIAL PIT AREA B | RI/RA |
| SITE | 36 | DRUM STORAGE AREA B | RI/RA |
| SITE | 37 | BURIAL PIT AREA A | RI/RA |
| SITE | 38 | ENGINE REPAIR SHOP AREA A | RI/RA |
| SITE | 39 | BURNING/BURIAL PIT AREA A | RI/RA |
| SITE | 40 | INDUSTRIAL SLUDGE DRYING BEDS AREA A | RI/RA |
| SITE | 41 | BURIAL PIT AREA C | RI/RA |
| SITE | 42 | OIL/BURNING PITS AREA C | RI/RA |
| SITE | 43 | BURIAL PIT AREA C | RI/RA |
| SITE | 44 | SURFACE STORAGE AREA NORTH OF BASE | RI/RA |
| SITE | 45 | PAINT BURIAL PIT NORTH OF BASE | RI/RA |
| SITE | 46 | OLD SALVAGE YARD OPERATION AREA NORTH | RI/RA |
| SITE | 47 | BLOG 666 AREA B | RI/RA |
| SITE | 48 | WASTE TREATMENT AREA C | RI/RA |
| SITE | 49 | BURIAL PIT AREA C | RI/RA |
| SITE | 50 | SETTLING POND AREA C | RI/RA |
| SITE | 51 | SETTLING POND AREA C | RI/RA |
| SITE | 52 | BURIAL PIT AREA C | RI/RA |
| SITE | 53 | SETTLING POND AREA C | RI/RA |
| SITE | 54 | SURFACE SITE AREA C | RI/RA |
| SITE | 55 | SURFACE SITE AREA C | RI/RA |
| SITE | 56 | SURFACE SITE AREA C | RI/RA |
| SITE | 57 | PIT AREA C | RI/RA |
| SITE | 58 | BURIED TANK AREA C | RI/RA |
| SITE | 59 | BURIED TANK AREA C | RI/RA |
| SITE | 60 | PONDS AREA C | RI/RA |
| SITE | 61 | ACID PIT AREA C | RI/RA |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

CALIFORNIA

| Site Name | | Description | Project |
|-----------|----|--------------------|---------|
| SITE | 62 | CYANIDE PIT AREA C | RI/RA |
| SITE | 63 | DITCH AREA C | RI/RA |
| SITE | 65 | DITCH AREA C | RI/RA |
| SITE | 66 | WASTE POND AREA C | RI/RA |
| SITE | 67 | WASTE PIT AREA C | RI/RA |
| SITE | 68 | SLUDGE POND | RI/RA |
| SITE | 69 | WASTE PIT AREA C | RI/RA |

**** NORTON AFB (AIR FORCE)**

| | | | |
|------|----|-------------------------------------|----|
| SITE | 1 | LANDFILL 1 | RI |
| SITE | 2 | LOW LEVEL RADIOACTIVE WASTE BURIAL | RI |
| SITE | 3 | INDUSTRIAL WASTE LAGOONS | RI |
| SITE | 4 | BLDG 723 | RA |
| SITE | 5 | WASTE PIT 1 | RI |
| SITE | 6 | WASTE PIT 2 | RI |
| SITE | 7 | WASTE PIT 3 | RI |
| SITE | 8 | WASTE PIT 4 | RI |
| SITE | 9 | FPTA 2 | RI |
| SITE | 10 | OIL SPILL AREAS | RI |
| SITE | 12 | IWTP SLOG DRYING BEDS | RI |
| SITE | 13 | PCB SPILL | RI |
| SITE | 14 | CHEMICAL SPILL 5 | RI |
| SITE | 15 | FUEL SLUDGE DISPAVS/DAVA EVAP BASIN | RI |
| SITE | 16 | WASTE DRUM STORAGE 1 | RI |
| SITE | 17 | WASTE DRUM STORAGE 3 | RI |
| SITE | 18 | AVGAS SPILL | RI |

**** TRAVIS (AIR FORCE)**

| | | | |
|------|----|---------------------------------|-------|
| SITE | 1 | STP SLUDGE DISPOSAL | RI |
| SITE | 2 | OLD SPILLAGE | RI |
| SITE | 3 | STP INACTIVE OXIDATION POND | RI |
| SITE | 4 | FPTA 1 | RI |
| SITE | 5 | FPTA 2 | RI |
| SITE | 6 | FPTA 3 | RI |
| SITE | 7 | FPTA 4 | RI |
| SITE | 8 | DISPOSAL SITE 1 | RI |
| SITE | 9 | DISPOSAL SITE 3 | RI |
| SITE | 10 | JP 4 SPILL | RI/RA |
| SITE | 11 | LANDFILL 1 | RI |
| SITE | 12 | LANDFILL 2 | RI |
| SITE | 13 | LANDFILL 3 | RI |
| SITE | 14 | SOLVENT SPILL | RI |
| SITE | 20 | OIL SPILL | RI |
| SITE | 30 | UNION CIRCLE STORM SEWER SYSTEM | RI |
| SITE | 31 | RD 1 RADIOACTIVE WASTE BURIAL | RI |
| SITE | 32 | RD 2 RADIOACTIVE WASTE BURIAL | RI |
| SITE | 33 | UNDERGROUND STORAGE TANKS | HALTM |

**** VANDENBERG AFB (AIR FORCE)**

| | | | |
|------|---|------|----|
| SITE | 1 | CS-2 | RI |
|------|---|------|----|

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 88)**

CALIFORNIA

| Site Name | | Description | Project |
|-----------|----|--------------------------|---------|
| SITE | 2 | LF 2 | RI |
| SITE | 3 | LF-5 | RI |
| SITE | 4 | SITE 3 CHEMICAL DISPOSAL | RI |
| SITE | 5 | SITE 4 CHEMICAL DISPOSAL | RI |
| SITE | 6 | AUTA | RI |
| SITE | 7 | SITE 5 CHEMICAL DISPOSAL | RI |
| SITE | 8 | SITE 6 CHEMICAL DISPOSAL | RI |
| SITE | 9 | SITE 7 CHEMICAL DISPOSAL | RI |
| SITE | 10 | SITE 8 CHEMICAL DISPOSAL | RI |
| SITE | 11 | SITE 9 CHEMICAL DISPOSAL | RI |
| SITE | 12 | LF-3/4 | RI |
| SITE | 13 | SITE 1 CHEMICAL DISPOSAL | RI |
| SITE | 14 | FTA-1 | RI |
| SITE | 15 | LF-1 | RI |
| SITE | 16 | SITE DRUM DISPOSAL | RI |
| SITE | 17 | LF-11 | RI |

**** DOTC TRACY (DEFENSE LOGISTICS AGENCY)**

| | | | |
|------|---|---|------|
| SITE | 1 | ON-SITE SOIL ANALYSIS, WELLS, BORINGS, ETC. | RUFS |
|------|---|---|------|

**** DFSC OZOL/VINE HILL (DEFENSE LOGISTICS AGENCY)**

| | | | |
|------|---|-------------------|------|
| SITE | 3 | OFF-SITE CLEAN-UP | RUFS |
|------|---|-------------------|------|

**** DFSP OZOL (DEFENSE LOGISTICS AGENCY)**

| | | | |
|------|---|-----------------|------|
| SITE | 1 | CONTRACT ADMIN. | RUFS |
|------|---|-----------------|------|

**** DFSP SAN PEDRO (DEFENSE LOGISTICS AGENCY)**

| | | | |
|------|---|--|------|
| SITE | 1 | TANK FARM, WELLS, BORINGS AND ANALYSIS | RUFS |
|------|---|--|------|

| | | | |
|------|---|------------------------------------|------|
| SITE | 2 | WHARF, WELLS, BORINGS AND ANALYSIS | RUFS |
|------|---|------------------------------------|------|

COLORADO

| Site Name | | Description | Project |
|---|---|--------------------------------|---------|
| ** PUEBLO DEPOT ACTIVITY (ARMY) | | | |
| SITE | 1 | SEVERAL SITES | RUFS |
| ** ROCKY MOUNTAIN ARSENAL (ARMY) | | | |
| | | REMEDIAL INVESTIGATIONS | RUFS |
| | | ENDANGERMENT ASSESSMENT | RUFS |
| | | FEASIBILITY STUDY | RUFS |
| | | DESIGN AND EXECUTION (REMOVAL) | RUFS |
| | | OPERATION AND MAINT | RUFS |
| | | PROGRAM SUPPORT | RUFS |
| ** AFP PJXS WATERTON (AIR FORCE) | | | |
| SITE | 1 | SUSPECTED LANDFILL | RI |
| SITE | 2 | DRAINAGE FLUMES | RI |
| SITE | 3 | T-8A CONTAMINATION POND | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

COLORADO

| Site Name | Description | Project |
|-----------|----------------------------|---------|
| SITE 4 | EPL BLDG T 6 | RI |
| SITE 5 | HYDRAZINE SPILL | RI |
| SITE 6 | DEISEL TANK T 23 | RI |
| SITE 7 | D 1 LANDFILL | RI |
| SITE 8 | TEST FAC STORAGE | RI |
| SITE 9 | NO 6 DIESEL FUEL BELOW D 1 | RI |

**** BUCKLEY ANG (AIR FORCE)**

| | | |
|--------|--------------------------------------|-------|
| SITE 1 | FIRE TRAINING AREA NO 1 | RI/FS |
| SITE 2 | FITE TRAINING AREA NO 2 | RI/FS |
| SITE 3 | FIRE TRAINING AREA NO 3 | RI/FS |
| SITE 4 | FIRE TRAINING SITE 5 | RI/FS |
| SITE 5 | JP 4 SUSPECTED UNDERGROUND LINE LEAK | RI/RA |
| SITE 6 | BASE DUMP/IN A ZONE W/OIL PIT | RI/FS |

**** LOWRY AFB (AIR FORCE)**

| | | |
|---------|--|----|
| SITE 1 | D 1 | FS |
| SITE 2 | FT 1 | FS |
| SITE 3 | S 2 | FS |
| SITE 4 | S 3 | FS |
| SITE 5 | S 5 | FS |
| SITE 6 | S 10 | FS |
| SITE 7 | FT 2 | FS |
| SITE 8 | SP 1 | FS |
| SITE 9 | D 2 | FS |
| SITE 10 | BLDG 1010 | FS |
| SITE 11 | FAC 369 ABANDONED UST | FS |
| SITE 12 | FORMER SERVICE STATION 3EA ABANDONED UST | FS |
| SITE 13 | POL STORAGE YARD 13EA ABANDONED UST | RI |

CONNECTICUT

| Site Name | Description | Project |
|---------------------------------|-------------------------|---------|
| ** NSB NEW LONDON (NAVY) | | |
| SITE 1 | OPDO AREA | RI/FS |
| SITE 2 | AREA A LNOFL | RI/FS |
| SITE 3 | OVER BANK DISPOSAL AREA | RI/FS |
| SITE 4 | OBOANE | RI/FS |

DELAWARE

| Site Name | Description | Project |
|--|---------------------------------------|---------|
| ** DOVER AFB (AIR FORCE) | | |
| SITE 1 | DD 1 | RA |
| SITE 2 | T 1 | RA |
| SITE 4 | D 4 | RA |
| ** GREATER WILMINGTON ANG (AIR FORCE) | | |
| SITE 1 | AREA ADJCT TO POL PUMPHOUSE BLDG 2701 | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

DELAWARE

| Site Name | | Description | Project |
|-----------|---|--|---------|
| SITE | 2 | AREA DOWN GRADE OF REFUELER PARKING AREA | RVFS |
| SITE | 3 | SOUTH AND WEST EDGE OF AC PARKING AREA | RVFS |
| SITE | 4 | SE DRAINAGE DITCH | RVFS |

FLORIDA

| Site Name | | Description | Project |
|-----------------------------------|----|--|---------|
| ** WEST PALM BEACH (ARMY) | | | |
| SITE | 1 | ANNEX I AND II | RA |
| ** NAS CECIL FIELD (NAVY) | | | |
| SITE | 1 | OLD LNOFL | RVFS |
| SITE | 2 | GREASE PITS | RVFS |
| SITE | 3 | DISPOSAL AREA NORTHWEST | RVFS |
| SITE | 4 | OLD FIRE FIGHTING TRAINING AREA | RVFS |
| SITE | 5 | HW/FIRE FIGHTING TRAINING AREA | RVFS |
| SITE | 7 | GOLF COURSE PESTICIDE DISP. | RVFS |
| SITE | 8 | AIMD SEEPAGE PIT | RVFS |
| SITE | 10 | OIL SLUDGE DISP. PIT SW | RVFS |
| SITE | 11 | RECENT LNOFL | RVFS |
| SITE | 16 | OIL SLUDGE PIT | RVFS |
| ** NAS JACKSONVILLE (NAVY) | | | |
| SITE | 1 | JP-4 EXPLOSION FUEL FARM | RVFS |
| SITE | 2 | HANGAR BUILDING 101 | RVFS |
| SITE | 3 | OLD TEST CELL BLDG | RVFS |
| SITE | 4 | BATTERY SHOP | RVFS |
| SITE | 5 | SOLVENT AND PAINT SLUDGE | RVFS |
| SITE | 6 | STORM SEWER DISCHARGE BLACK POINT | RVFS |
| SITE | 7 | SHORELINE FILL | RVFS |
| SITE | 8 | OLD DISPOSAL AREA | RVFS |
| SITE | 9 | RADIUM PART WASTE DISPOSAL PIT | RVFS |
| SITE | 10 | (OTHER) GLASS BEAD DISPOSAL AREA | RVFS |
| SITE | 11 | (NFO) OIL POND AND LAND SPREADING AREA | RVFS |
| SITE | 12 | OLD MAIN REGISTERED DISPOSAL AREA | RVFS |
| SITE | 13 | RADIOACTIVE WASTE FILL AREA | RVFS |
| SITE | 14 | PCB STORAGE | RVFS |
| SITE | 15 | (NAS) PRESENT FIREFIGHTING TRAINING AREA | RVFS |
| SITE | 15 | OLD GAS STATION | RVFS |
| SITE | 15 | FIRE PIT | RVFS |
| SITE | 16 | PINE TREE PLANTING | RVFS |
| SITE | 16 | ORGANIC DISPOSAL AREA | RVFS |
| SITE | 17 | OLD DRUM LOT | RVFS |
| SITE | 18 | BASE LANDFILL | RVFS |
| SITE | 19 | TRANSFORMER BURIED AREA | RVFS |
| SITE | 20 | INDUSTRIAL WASTEWATER DISCHARGE | RVFS |
| ** NAS KEY WEST (NAVY) | | | |
| SITE | 1 | TRUMAN ANNEX DISP AREA | RVFS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

FLORIDA

| Site Name | | Description | Project |
|------------------------------------|----|---------------------------------------|---------|
| SITE | 2 | TRANSFORMER OIL DISP AREA | R/VFS |
| SITE | 3 | NORTH LANDFILL | R/VFS |
| SITE | 4 | SOUTH LANDFILL | R/VFS |
| SITE | 5 | TANK FARM | R/VFS |
| SITE | 6 | FIRE FIGHTING TRAINING AREA | R/VFS |
| SITE | 7 | TRUMAN ANNEX ODT MIXING AREA | R/VFS |
| SITE | 8 | BOCA CHICA OPEN DISP AREA | R/VFS |
| SITE | 9 | BOCA CHICA ODT MIXING AREA | R/VFS |
| ** NAS PENSACOLA (NAVY) | | | |
| SITE | 1 | SAN. LANDFILL | R/VFS |
| SITE | 2 | WATERFRONT SEDIMENTS | R/VFS |
| SITE | 3 | CRASH CREW TRAINING AREA | R/VFS |
| SITE | 4 | NAVY YARD DISPOSAL AREA | R/VFS |
| SITE | 5 | N. CHEVALIER FIELD DISPOSAL | R/VFS |
| SITE | 6 | PESTICIDE RINSEATE AREA | R/VFS |
| SITE | 7 | TRANSFORMER STOR | R/VFS |
| SITE | 8 | FUEL FARM PIPELINE LEAK | R/VFS |
| SITE | 9 | SLUDGE DISPOSAL AT FUEL TANK | R/VFS |
| SITE | 10 | REFUELER REPAIR SHOP FUEL DISPOSAL | R/VFS |
| SITE | 11 | CHEVALIER FIELD PIPELINE LEAK | R/VFS |
| SITE | 12 | SUP DEPT OUTSIDE STOR | R/VFS |
| SITE | 13 | RADIAL DIAL SHOP SEWER | R/VFS |
| SITE | 14 | SOIL S. OF BLDG 3460 | R/VFS |
| SITE | 15 | BLDG 649/755 | R/VFS |
| SITE | 16 | BLDG 648 | R/VFS |
| SITE | 17 | IND. SLUDGE DRYING BEDS | R/VFS |
| SITE | 18 | WWTP PONDS | R/VFS |
| SITE | 19 | BLDG 3557 | R/VFS |
| ** NAS WHITING FIELD (NAVY) | | | |
| SITE | 1 | NW DISPOSAL AREA | R/VFS |
| SITE | 2 | UNDERGROUND WASTE SOLVENT STOR AREA | R/VFS |
| SITE | 3 | NORTH AVGAS TANK SLUDGE DISPOSAL AREA | R/VFS |
| SITE | 4 | BATTERY ACID SEEPAGE PIT | R/VFS |
| SITE | 5 | OPEN DISPOSAL AND BURNING AREA | R/VFS |
| SITE | 6 | S TRANSFORMER OIL DISPOSAL AREA | R/VFS |
| SITE | 7 | S AVGAS TANK SLUDGE DISPOSAL AREA | R/VFS |
| SITE | 8 | AVGAS FUEL SPILL AREA | R/VFS |
| SITE | 9 | WASTE FUEL DISPOSAL AREA | R/VFS |
| SITE | 10 | SE OPEN DISPOSAL AREA A | R/VFS |
| SITE | 11 | SE OPEN DISPOSAL AREA B | R/VFS |
| SITE | 12 | TETRAETHYL LEAD DISPOSAL AREA | R/VFS |
| SITE | 13 | LANDFILL | R/VFS |
| SITE | 14 | SHORT TERM SANITARY LANDFILL | R/VFS |
| SITE | 15 | SW LANDFILL | R/VFS |
| ** NCSC PANAMA CITY (NAVY) | | | |
| SITE | 1 | ORG DISPOSAL SITE | R/VFS |
| SITE | 2 | BURN AND LANDFILL AREA | R/VFS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

FLORIDA

| Site Name | | Description | Project |
|--------------------------------------|----|----------------------------------|---------|
| SITE | 3 | OLD FIRE TRAINING AREA | RI/FS |
| SITE | 4 | UNDERGROUND OIL CONTAINER AREA | RI/FS |
| SITE | 5 | PAINT EQUIP. CLEANING AREA | RI/FS |
| SITE | 6 | BURN DISPOSAL AREA | RI/FS |
| SITE | 8 | SOLVENT DISP BEHIND B40 | RI/FS |
| ** NS MAYPORT (NAVY) | | | |
| SITE | 1 | LNDFL A | RI/FS |
| SITE | 2 | WASTE OIL PIT | RI/FS |
| SITE | 4 | FUEL SPILL AREA | RI/FS |
| SITE | 5 | MERC/OILY WASTE SPILL | RI/FS |
| SITE | 6 | LNDFL D | RI/FS |
| SITE | 8 | LNDFL E | RI/FS |
| SITE | 9 | LNDFL F | RI/FS |
| SITE | 14 | LNDFL B | RI/FS |
| ** NTC ORLANDO (NAVY) | | | |
| SITE | 1 | NORTH FIELD LNDFL | RI/FS |
| SITE | 3 | MCCOY LNDFL | RI/FS |
| SITE | 6 | OPDO MCCOY ANNEX | RI/FS |
| SITE | 8 | NTC PESTICIDE BLDG | RI/FS |
| SITE | 9 | LAKE BALDWIN | RI/FS |
| ** CAPE CANAVERAL (AIR FORCE) | | | |
| SITE | 1 | LANDFILL 1 | RI |
| SITE | 2 | LANDFILL 2 | RI |
| SITE | 3 | CHEMICAL DISPOSAL 9 | RI |
| SITE | 4 | CHEMICAL DISPOSAL 6 | RI |
| SITE | 5 | CHEMICAL DISPOSAL 7 | RI |
| SITE | 6 | CHEMICAL DISPOSAL 2 | RI |
| SITE | 7 | CHEMICAL DISPOSAL 12 | RI |
| SITE | 8 | FUEL SPILL | RI |
| SITE | 9 | FDTA 1 | RI |
| SITE | 10 | FDTA 2 | RI |
| ** EGLIN AFB (AIR FORCE) | | | |
| SITE | 1 | A-20 | RI |
| SITE | 2 | D9 | RI |
| SITE | 3 | T3 | RI/RA |
| SITE | 4 | HERO FACILITY | RI |
| SITE | 5 | HOBBY SHOP | RI |
| SITE | 6 | FIRE TRAINING AREA | RI |
| SITE | 7 | FIRE TRAINING AREA-DUKE | RI |
| SITE | 8 | FIRE TRAINING AREA EGLIN FIELD | RI |
| SITE | 9 | MOTOR POOL CONTAMINATION | RI |
| SITE | 10 | HURLBURT FIELD SANITARY LANDFILL | RI |
| SITE | 11 | T1 HERBICIDE TEST GRID | RI |
| SITE | 12 | D-1 EGLIN MAIN LANDFILL | RI |
| SITE | 13 | D-2 EGLIN MAIN LANDFILL | RI |
| SITE | 14 | D-3 EGLIN MAIN LANDFILL | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

FLORIDA

| Site Name | | Description | Project |
|--|----|--|---------|
| SITE | 15 | FIELD 2 NORTH LANDFILL | RI |
| SITE | 16 | D-17 FIELD 2 DRUM DISPOSAL AREA | RI |
| SITE | 17 | D-4 DISPOSAL PIT NEAR SKEET RANGE | RI |
| SITE | 18 | A-19 DRUM DISPOSAL AREA | RI |
| SITE | 19 | RECIEVER AREA LANDFILL | RI |
| SITE | 20 | D-18 LANDFILL | RI |
| SITE | 21 | D-26 LANDFILL | RI |
| SITE | 22 | D-29 LANDFILL | RI |
| SITE | 23 | D-30 LANDFILL | RI |
| SITE | 24 | D-31 LANDFILL | RI |
| SITE | 25 | D-32 LANDFILL | RI |
| ** JACKSONVILLE ANG (AIR FORCE) | | | |
| SITE | 1 | AREA NEAR HEATING PLANT | RI/FS |
| SITE | 2 | OWS INLETS AT DOWNGRADE END OF AC PARKIN | RI/FS |
| SITE | 3 | GROUND BENEATH 125TH FIG PARKING APRON | RI/FS |
| SITE | 3 | FIRE TRAINING AREA | RI/FS |
| SITE | 5 | OVERFLOWING OWS AT HUSH HOUSE | RI/FS |
| SITE | 6 | AREA NEAR OWS/VEH MAINT. BLDG | RI/FS |
| ** MACDILL AFB (AIR FORCE) | | | |
| SITE | 4 | FORMER FUEL STORAGE AREA | RD |
| SITE | 5 | LANDFILL AT DOG KENNEL | RI |
| SITE | 7 | LANDFILL AT CE WASHRACK | RI |
| SITE | 8 | LANDFILL AT EOD EAST | RI |
| SITE | 9 | LANDFILL AT EOD WEST | RI |
| SITE | 10 | WEST LANDFILL | RI |
| SITE | 11 | CURRENT LANDFILL | RI |
| SITE | 12 | CHEMICAL MUNITIONS BURIAL SITE | RI |
| SITE | 13 | CREOSOTE PIT | RI |
| SITE | 14 | FUEL TANK FARM | RI |
| SITE | 15 | DRUM STORAGE AREA | RI |
| SITE | 16 | FIRE TRAINING AREA | RI |
| SITE | 17 | FORMER FUEL STORAGE AREA NEXT TO AGE | RI |
| SITE | 18 | OLD LANDFILL | RI |
| SITE | 19 | AP7 CURRENT LANDFILL | RI |
| SITE | 20 | ARMY TEST SITE | RI |
| SITE | 21 | AP11 PESTICIDE RINSE AREA | RI |
| SITE | 22 | FORMER FUEL STORAGE AREA 2 | RI |
| SITE | 23 | AVGAS SLUDGE WEATHERING 17 | RI |
| ** PATRICK AFS (AIR FORCE) | | | |
| SITE | 1 | LANDFILL 1 | RI |
| SITE | 2 | SITE 3 CHEMICAL DISPOSAL SITE | RI/FS |
| SITE | 3 | CHEMICAL DISPOSAL SITE 6 | RI |
| SITE | 4 | LANDFILL 4 | RI |
| SITE | 5 | CHEMICAL DISPOSAL SITE 7 | RI |
| SITE | 6 | CHEMICAL DISPOSAL SITE 1 | RI |
| SITE | 7 | CHEMICAL DISPOSAL SITE 2 | RI |
| SITE | 8 | LANDFILL 3 | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

FLORIDA

| Site Name | Description | Project |
|-----------|--------------------------|---------|
| SITE 9 | CHEMICAL DISPOSAL SITE 4 | RI |
| SITE 10 | CHEMICAL DISPOSAL SITE 5 | RI |
| SITE 11 | FPTA 1 | RI |
| SITE 12 | FPTA 2 | RI |
| SITE 13 | POL BULK STORAGE | FS |
| SITE 14 | PCB SPILL 2 | RI |
| SITE 15 | LANDFILL 5A | RI |

**** TYNDALL AFB (AIR FORCE)**

| | | |
|---------|---------------------------------|----|
| SITE 1 | SEWAGE PLANT LANDFILL | RI |
| SITE 5 | SPRAY FIELD LANDFILL | RI |
| SITE 6 | SOUTHEAST RUNWAY BURIAL SITE | RI |
| SITE 7 | ZONE 8 "6000" AREA LANDFILL | RI |
| SITE 8 | ZONE 1 POL AREA A FUEL SUPPLY | RI |
| SITE 9 | ZONE 9 POL AREA B FUEL SUPPLY | RI |
| SITE 11 | ZONE 6 HIGHWAY 98 FDTA | RI |
| SITE 12 | ZONE 4 AAFES SERVICE STATION | RI |
| SITE 13 | ZONE 5 SMALL ARMS REPAIR | RI |
| SITE 14 | ZONE 2 LYNN HAVEN DFSP | RI |
| SITE 15 | ZONE 7 SE EXTENSION BURIAL SITE | RI |

**** TYNDALLAFB (AIR FORCE)**

| | | |
|---------|-------------------------|----|
| SITE 10 | ZONE 10 SHELL BANK FDTA | RI |
|---------|-------------------------|----|

GEORGIA

| Site Name | Description | Project |
|------------------------------|-------------------------------|---------|
| ** MCLB ALBANY (NAVY) | | |
| SITE 2 | RUBBLE DISPOSAL AREA | RI/FS |
| SITE 3 | W. DISPOSAL AREA | RI/FS |
| SITE 4 | LONG-TERM LNDFL | RI/FS |
| SITE 5 | IND. DISCHARGE DRAINAGE DITCH | RI/FS |
| SITE 6 | PENTACHLOROPHENOL DIP TANK | RI/FS |
| SITE 7 | CLEANING TANK BLDG 572 | RI/FS |

**** MOODY AFB (AIR FORCE)**

| | | |
|---------|-------------------------|-------|
| SITE 1 | SOUTHWEST LANDFILL | RI |
| SITE 2 | DDT BURIAL SITE | RI/RA |
| SITE 3 | LILY PAD POND FILL SITE | RI |
| SITE 12 | NORTH POL TANK FARM | RI/FS |

**** ROBINS AFB (AIR FORCE)**

| | | |
|--------|---------------|----|
| SITE 1 | LANDFILL 4 | RI |
| SITE 2 | FTA 2 | RI |
| SITE 3 | SLUDGE LAGOON | RI |
| SITE 4 | LANDFILL 3 | RI |
| SITE 5 | DDT SITE | RI |
| SITE 7 | UST REMOVAL | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 88)**

GEORGIA

| Site Name | Description | Project |
|-----------|---------------------------------|---------|
| SITE 10 | LANDFILL 1 | RI |
| SITE 11 | LANDFILL 2 | RI |
| SITE 20 | FTA 4 | RI |
| SITE 20 | JP-4 SPILL (1965) | RI/FS |
| SITE 21 | PCB SPILL | RI |
| SITE 22 | FTA 1 | RI |
| SITE 23 | FTA 3 | RI |
| SITE 24 | RADIOACTIVE WASTE DISPOSAL SITE | RI |
| SITE 25 | HAZ WASTE DISPOSAL SITE | RI |
| SITE 26 | LABORATORY CHEM. BURIAL | RI |

GUAM

| Site Name | Description | Project |
|------------------------------------|-----------------------------------|---------|
| ** NAS AGANA (NAVY) | | |
| SITE 1 | LNDFL 2 | RI/FS |
| SITE 2 | NAVMAG-HOD FORMER DEMO RANGE | RI/FS |
| SITE 3 | SANITARY LANDFILL | RI/FS |
| SITE 4 | DRAINAGE BURN HOLDING POND | RI/FS |
| SITE 5 | LNDFL 1 | RI/FS |
| ** PWC GUAM (NAVY) | | |
| SITE 2 | PCB TRANSFORMER FILTER AREA | RI/FS |
| ** ANDERSEN AFB (AIR FORCE) | | |
| SITE 1 | SITE 1 CHEMICAL DISPOSAL | RI |
| SITE 2 | RMW CENTRAL SOIL | RI |
| SITE 3 | DRUM STORAGE AREA | RI |
| SITE 4 | SITE 2 CHEMICAL DISPOSAL | RI |
| SITE 5 | SITE 3 CHEMICAL DISPOSAL | RI |
| SITE 6 | SITE 4 CHEMICAL DISPOSAL | RI |
| SITE 7 | DRAINAGE STORAGE AREA 2 | RI |
| SITE 8 | HAZARDOUS WASTE STORAGE AREA 1 | RI |
| SITE 9 | FTA 1 | RI |
| SITE 10 | FIREFIGHTER TRAINING AREA 2 | RI |
| SITE 11 | LANDFILL 1 | RI |
| SITE 12 | LANDFILL 10 | RI |
| SITE 13 | LANDFILL 13 | RI |
| SITE 14 | LANDFILL 16 | RI |
| SITE 15 | LANDFILL 2 | RI |
| SITE 16 | LANDFILL 22 | RI |
| SITE 17 | LANDFILL 25 | RI |
| SITE 18 | LANDFILL 3 | RI |
| SITE 20 | ZONE 1 STORMWATER DRAINAGE SYSTEM | RI |
| SITE 21 | ZONE 2 STORMWATER DRAINAGE SYSTEM | RI |
| SITE 23 | ZONE 3 STORMWATER DRAINAGE SYSTEM | RI |

HAWAII

| Site Name | Description | Project |
|-------------------------------|-------------|---------|
| ** MCAS KANEHOE (NAVY) | | |
| SITE 1 | H-3 LNDFL | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86).**

HAWAII

| Site Name | | Description | Project |
|------------------------------------|----|--|---------|
| ** NAS BARBERS POINT (NAVY) | | | |
| SITE | 1 | SANITARY LNDFL | RI/FS |
| SITE | 2 | CORAL SEA RD CORAL PIT | RI/FS |
| SITE | 3 | ORDY POND | RI/FS |
| ** HICKAM AFB (AIR FORCE) | | | |
| SITE | 1 | TRI-SERVICES LANDFILL | RI |
| SITE | 5 | CANAL STORM DRAINAGE SYSTEM | RI |
| SITE | 7 | SITE 22 KUMUNAU CANAL STORM DRAIN SYSTE | RI |
| SITE | 9 | SITE 23 MTR POOL STORM DRAIN SYS | RI |
| SITE | 10 | HICKAM SITE 7 | RI |
| SITE | 11 | HICKAM SITE 13 | RI |
| SITE | 12 | HICKAM SITE 14 | RI |
| SITE | 13 | HICKAM SITE 15 | RI |
| SITE | 14 | HICKAM SITE 19 | RI |
| SITE | 15 | HICKAM SITE 1 | RI |
| SITE | 16 | SITE 9 FUEL LEAK | RI |
| SITE | 17 | SITE 10 FUEL LEAK | RI |
| SITE | 18 | SITE 11 FUEL LEAK | RI |
| SITE | 19 | SITE 12 FUEL LEAK | RI |
| SITE | 21 | SITE 16 FUEL LEAK | RI |
| SITE | 22 | SITE 17 FUEL LEAK | RI |
| SITE | 23 | SITE 18 FUEL LEAK | RI |
| ** HICKAM POL (AIR FORCE) | | | |
| SITE | 1 | KIPAPA POL SLUDGE DISPOSAL AND PIPE LEAK | RI |
| SITE | 2 | POL PIPELINE SITE 1 | RI |
| SITE | 3 | POL PIPELINE SITE 10 | RI |
| SITE | 4 | POL PIPELINE SITE 2 | RI |
| SITE | 5 | POL PIPELINE SITE 3 | RI |
| SITE | 6 | POL PIPELINE SITE 4 | RI |
| SITE | 7 | POL PIPELINE SITE 5 | RI |
| SITE | 8 | POL PIPELINE SITE 6 | RI |
| SITE | 9 | POL PIPELINE SITE 8 | RI |
| SITE | 10 | POL PIPELINE SITE 9 | RI |
| SITE | 11 | POL PIPELINE LEAK 7 | RI |
| SITE | 12 | WAINAKALGUA POL ENTIRE SITE | RI |
| SITE | 13 | STORAGE SPILL AREAS | RI |

IOWA

| Site Name | | Description | Project |
|--------------------------------------|---|--|---------|
| ** IOWA AAP (ARMY) | | | |
| SITE | 2 | PINK WATER LAGOON-FORMER LINE 1 IMPOUNDT | RI/FS |
| SITE | 3 | INERT LANDFILL | RI/FS |
| ** DES MOINES ANG (AIR FORCE) | | | |
| SITE | 1 | OLD FITE TRAINING AREA | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

IOWA

| Site Name | | Description | Project |
|-----------|---|--|---------|
| SITE | 2 | NEW FIRE TRAINING AREA & NO. RUNWAY DRAI | RI |
| SITE | 3 | FACILITY 105 VEH. MAINT. FUEL TANK | RI |
| SITE | 5 | VEHICLE MAINT. FUEL TANK EXCAVATION | RI |

IDAHO

| Site Name | | Description | Project |
|---|---|--|---------|
| ** BOISE (AIR FORCE) | | | |
| SITE | 1 | FIRE TRAINING AREA NO. 1 | RI/FS |
| SITE | 2 | FIRE TRAINING AREA NO. 2 | RI/FS |
| SITE | 3 | FORMER FENCE POST PRESERVING OPERATION | RI/FS |
| SITE | 4 | TAR PIT AREA | RI/FS |
| ** MOUNTAIN HOME AFB (AIR FORCE) | | | |
| SITE | 1 | WASTE OIL DISPOSAL SITE | RI |
| SITE | 2 | EXISTING FIRE DEPT. TRAINING AREA | FS |

ILLINOIS

| Site Name | | Description | Project |
|-----------------------------------|----|---------------------|---------|
| ** JOLIET AAP (ARMY) | | | |
| SITE | 2 | MANUFACTURING AREA | RI/FS |
| ** CHANUTE AFB (AIR FORCE) | | | |
| SITE | 1 | LANDFILL 1 | FS |
| SITE | 2 | LANDFILL 2 | FS |
| SITE | 3 | SLUDGE PIT BLDG 932 | FS |
| SITE | 4 | FPTA 1 | FS |
| SITE | 5 | FPTA 2 | FS |
| SITE | 6 | LANDFILL 3 | FS |
| SITE | 7 | LANDFILL 4 | FS |
| SITE | 8 | BLDG 2306 | FS |
| SITE | 9 | BLDG 505 | FS |
| SITE | 10 | BLDG 937 | FS |
| SITE | 11 | BLDG 502 | FS |
| SITE | 12 | BLDG 760 | FS |
| SITE | 13 | BLDG 51 | FS |
| SITE | 14 | BLDG 349 | FS |
| SITE | 15 | BLDG 53 | FS |

INDIANA

| Site Name | | Description | Project |
|-----------------------------|---|-------------------|---------|
| ** NWSC CRANE (NAVY) | | | |
| SITE | 1 | MINE FILL A AND B | RI/FS |
| SITE | 2 | BATTERY SHOP | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

INDIANA

| Site Name | | Description | Project |
|------------------------------------|----|---------------------------|---------|
| SITE | 3 | BURNING PIT | RI/FS |
| SITE | 4 | DEMOLITION AREA | RI/FS |
| SITE | 5 | ORDNANCE BURNING GROUNDS | RI/FS |
| SITE | 7 | DYE BURIAL GROUNDS | RI/FS |
| SITE | 8 | LOAD AND FILL AREA | RI/FS |
| SITE | 9 | CAST HIGH EXPLOSIVES FILL | RI/FS |
| SITE | 10 | LOAD AND FILL POND | RI/FS |
| SITE | 12 | MCCORMISH GROVE | RI/FS |
| SITE | 13 | PESTICIDE SHOP B-2189 | RI/FS |
| SITE | 14 | ROADS AND GROUNDS AREA | RI/FS |
| SITE | 15 | ROCKEYE | RI/FS |
| ** FT.WAYNE ANG (AIR FORCE) | | | |
| SITE | 1 | S 1 | RI/FS |
| SITE | 2 | S 2 | RI/FS |
| SITE | 3 | S 3 | RI/FS |
| SITE | 4 | S 4 | RI/FS |
| SITE | 5 | S 5 | RI/FS |
| ** HULMAN ANG (AIR FORCE) | | | |
| SITE | 1 | OLD BLADDER AREA | RI/FS |
| SITE | 2 | POWER SUPPRESSOR PAD | RI/FS |
| SITE | 3 | VEHICLE BUILDING | RI/FS |
| SITE | 4 | POL FILLSTAND AREA | RI/FS |

KANSAS

| Site Name | | Description | Project |
|-----------------------------|---|-----------------------------|---------|
| ** KANSAS AAP (ARMY) | | | |
| SITE | 1 | LAP DEMOLITION AND LANDFILL | RI/FS |

KENTUCKY

| Site Name | | Description | Project |
|--------------------------------|---|-----------------------|---------|
| ** FORT CAMPBELL (ARMY) | | | |
| SITE | 2 | CAMPBELL AIR FIELD | RI/FS |
| ** FORT KNOX (ARMY) | | | |
| SITE | 1 | POL CONTAMINATED SOIL | RI/RA |

LOUISIANA

| Site Name | | Description | Project |
|--------------------------------|---|-------------|---------|
| ** LOUISIANA AAP (ARMY) | | | |
| SITE | 1 | AREA P | RI/FS |
| SITE | 2 | BGS | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

LOUISIANA

| Site Name | Description | Project |
|-----------------------------------|--------------------------------|---------|
| SITE 3 | LANDFILL 3 | RI/FS |
| SITE 4 | LANDFILL 8 | RI/FS |
| ** NAS NEW ORLEANS (NAVY) | | |
| SITE 6 | FUEL TANK STRIPPING BURN AREA | RI/FS |
| SITE 9 | LNDFL AT B 704 | RI/FS |
| SITE 20 | FIRE FIGHTING TRAINING AREA | RI/FS |
| ** ENGLAND AFB (AIR FORCE) | | |
| SITE 4 | D-15 POL SLUDGE WEATHERING PIT | RI |

MASSACHUSETTS

| Site Name | Description | Project |
|---|---|---------|
| ** NATICK R&D COMMAND (ARMY) | | |
| SITE 1 | FIRE PIT AREA | RA |
| ** HANSCOM AFB (AIR FORCE) | | |
| SITE 1 | FIRE TRAINING 1 | RI |
| SITE 2 | AAFES SERVICE STATION GASOLINE LEAK | RI |
| SITE 3 | FIRE TRAINING 4 | RI |
| SITE 4 | PAINT WASTE DISPOSAL | RI |
| SITE 5 | JET FUEL TANK SLUDGE | RI |
| SITE 6 | SANITARY LANDFILL | RI |
| SITE 7 | FORMER FILTER BED | RI |
| SITE 8 | IWT SYS | RI |
| SITE 9 | SCOTT CIRCLE LANDFILL | RI |
| SITE 10 | ADM BLDG JET FUEL SPILL | RI |
| SITE 11 | MERCURY SPILL | RI |
| SITE 12 | VAR FUEL SPLS(RUNWY&TAXIWAY) | RI |
| SITE 13 | MOTOR POOL SPILL | RI |
| ** OTIS ANG (AIR FORCE) | | |
| SITE 1 | SANITARY LANDFILL | RI/RA |
| SITE 2 | CURRENT FIRE FIGHTING TRAINING AREA | RI/RA |
| SITE 3 | AVGAS FUEL TEST DUMP SITE | RI/RA |
| SITE 4 | PETROL/FUEL STORAGE AREA | RI/RA |
| SITE 5 | RAILYARD FUEL PUMPING STATION | RI/RA |
| SITE 6 | FORMER SEWAGE SLUDGE BED 1 | RI/RA |
| SITE 7 | R/W AIRCRAFT MAINTENANCE DRAINAGE DITCH | RI/RA |
| SITE 8 | FORMER SLUDGE BED 2 | RI/RA |
| SITE 9 | MAIN BASE LANDFILL | RI/RA |
| SITE 10 | AQUA FARM DRAINAGE SWALE | RI/RA |
| SITE 11 | R/W AIRCRAFT MAINTENANCE DRAINAGE DITCH | RI/RA |
| SITE 12 | FORMER MAIN USAF MOTOR POOL | RI/RA |
| SITE 13 | FORMER ENGINE RUN-UP AREA | RI/RA |
| SITE 14 | FUEL LINE LEAK CONTAINMENT AREA | RI/RA |
| SITE 15 | RANGE FUEL LINE LEAK | RI/RA |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

MASSACHUSETTS

| Site Name | Description | Project |
|-----------|--|---------|
| SITE 16 | HANAR 158, AIRCRAFT MAINTENANCE | RI/RA |
| SITE 17 | BLDG 156 VAPOR DEGREASER LEACH PIT | RI/RA |
| SITE 18 | COAL/ASH RUNOFF DRAINAGE DITCH | RI/RA |
| SITE 19 | CURRENT PRODUCT TANKS 100, 101 | RI/RA |
| SITE 20 | FORMER USAF/ANG COAL STORAGE YARD | RI/RA |
| SITE 21 | BX AUTOMOBILE SERVICE STATION | RI/RA |
| SITE 22 | TRANSMITTER STATION | RI/RA |
| SITE 23 | HANGAR 3170 AREA | RI/RA |
| SITE 24 | USCG MAINTENANCE SHOPS | RI/RA |
| SITE 25 | HANGAR 128 | RI/RA |
| SITE 26 | UTES/BOMARK | RI/RA |
| SITE 27 | SOUTH TRUCK ROAD MOTOR POOL | RI/RA |
| SITE 28 | WEST TRUCK ROAD MOTOR POOL | RI/RA |
| SITE 29 | FORMER REFUELER MAIN. SHOP | RI/RA |
| SITE 30 | WWII MOTOR POOL/TRANSFER POINT | RI/RA |
| SITE 31 | FUEL TRANSFER POINT | RI/RA |
| SITE 32 | FORMER MOGAS STORAGE | RI/RA |
| SITE 33 | FUEL SPILL (RANGE E-3) | RI/RA |
| SITE 34 | CURRENT PRODUCT TANK 115 | RI/RA |
| SITE 35 | CURRENT PRODUCT TANK 88 | RI/RA |
| SITE 36 | CURRENT PRODUCT TANK 90 | RI/RA |
| SITE 37 | CURRENT PRODUCT TANK 108 | RI/RA |
| SITE 38 | PESTICIDE SHOP | RI/RA |
| SITE 39 | FORMER FIREFIGHTING TRAINING AREA ZONE 1 | RI/RA |
| SITE 40 | FORMER FIRE TRAINING AREA (1956-1958) | RI/RA |
| SITE 41 | FORMER FIRE TRAINING AREA (1948-1956) | RI/RA |
| SITE 42 | NON-DESTRUCTIVE TEST LAB ZONE 1 | RI/RA |

**** WESTOVER (AIR FORCE)**

| | | |
|---------|---------------------------------|----|
| SITE 1 | SANITARY LANDFILL 8 | RI |
| SITE 2 | SANITARY LANDFILL A | RI |
| SITE 3 | CHRISTMAS TREE FDTA | RI |
| SITE 4 | RADIOACTIVE WASTE SITE | RI |
| SITE 5 | NORTH FDTA | RI |
| SITE 6 | STP AREA | RI |
| SITE 7 | FACILITY 900 LEACHING PIT | RI |
| SITE 8 | CURRENT FDTA | RI |
| SITE 11 | BATTERY SHOP LEACHING PIT | RI |
| SITE 15 | INDUSTIAL WASTE TREATMENT PLANT | RI |

MARYLAND

| Site Name | Description | Project |
|---|---------------|---------|
| ** ABERDEEN PRVG GRND, ABERDEEN (ARMY) | | |
| SITE 1 | J-FIELD | RI/FS |
| SITE 2 | CARROL ISLAND | RI/FS |
| SITE 3 | GRACES ORTS | RI/FS |
| SITE 4 | O-FIELD | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

MARYLAND

| Site Name | | Description | Project |
|-------------------------------------|----|--|---------|
| SITE | 5 | CANAL CREEK | RI/FS |
| SITE | 6 | NIKE SITE | RI/FS |
| SITE | 7 | WHITE PHOSPHORUS DISPOSAL | RI/FS |
| ** PHOENIX NIKE (ARMY) | | | |
| SITE | 1 | TOTAL NIKE SITE | RA |
| ** NAS PATUXENT RIVER (NAVY) | | | |
| SITE | 1 | TRANSFORMER STORAGE B516 | RI/FS |
| SITE | 6 | SLUDGE AT FUEL FARM A/STREAM | RI/FS |
| SITE | 7 | HERMANELLE DROP SITE | RI/FS |
| SITE | 8 | POND SOUTH OF SUPPLY | RI/FS |
| SITE | 9 | FORMER SANITARY LANDFILL | RI/FS |
| SITE | 10 | DPDO SALVAGE YD | RI/FS |
| SITE | 11 | BLDG 114 DISCHARGES TO DRYWELL | RI/FS |
| SITE | 12 | SOLVENT SPILL BEHIND BLDG 114 | RI/FS |
| SITE | 13 | AREA SOUTH OF BLDG 665 | RI/FS |
| SITE | 15 | FISHING PT LNDFL | RI/FS |
| SITE | 16 | DISP. NEAR POND 1 | RI/FS |
| SITE | 17 | STOR. AREA FUEL FARM | RI/FS |
| SITE | 18 | B111 /110 WASH RACK DRAINS | RI/FS |
| SITE | 19 | PEST CONTROL B 841 | RI/FS |
| SITE | 20 | B 306/CARBONTETRACHLORIDE DISPOSAL | RI/FS |
| ** NIROP CUMBERLAND (NAVY) | | | |
| SITE | 1 | NORTHERN RIVERSIDE WASTE DISPOSAL SITE | RI/FS |
| SITE | 2 | PREVIOUS BURNING GROUND | RI/FS |
| SITE | 3 | PREVIOUS BURNING GROUND | RI/FS |
| SITE | 4 | DEVELOPING SOLUTIONS DISPOSAL AREA | RI/FS |
| SITE | 5 | INERT LANDFILL (NO ORDNANCE) | RI/FS |
| SITE | 6 | SENSITIVITY TEST AREA SURFACE WATER | RI/FS |
| ** NOS INDIAN HEAD (NAVY) | | | |
| SITE | 1 | BLDG 731 X-RAY COOLING WATER | RI/FS |
| SITE | 5 | MERCURY DEPOSITS-BLAZZI PLANT | RI/FS |
| SITE | 8 | TOWN GUT | RI/FS |
| ** ANDREWS AFB (AIR FORCE) | | | |
| SITE | 1 | FPA 1 | RI |
| SITE | 2 | FPA 2 | RI |
| SITE | 3 | FT-4 | RI |
| SITE | 4 | SP-2 | RI |
| SITE | 5 | D-1 | RI |
| SITE | 6 | D-3 | RI |
| SITE | 7 | SP-5 | RI |
| SITE | 8 | DP-1 | RI |
| SITE | 9 | SP-4 | RI |
| SITE | 10 | SP-3 | RI |
| SITE | 11 | WAP-1 | RI |
| SITE | 12 | SP-6 | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

MARYLAND

| Site Name | Description | Project |
|-----------|-------------|---------|
| SITE 13 | D-4 | RI |
| SITE 14 | SP-8 | RI |

MAINE

| Site Name | Description | Project |
|--------------------------------|------------------------------|---------|
| ** NAS BRUNSWICK (NAVY) | | |
| SITE 1 | LANDFILL ORION ST.(NORTH) | RI/FS |
| SITE 2 | LANDFILL ORION ST (SOUTH) | RI/FS |
| SITE 3 | HW BURIAL AREA | RI/FS |
| SITE 4 | ACID/CAUSTIC PIT | RI/FS |
| SITE 5 | OIL ACID/CAUSTIC PIT | RI/FS |
| SITE 6 | PERIMETER ROAD DISPOSAL SITE | RI/FS |
| SITE 7 | NEPTUNE DR. DISPOSAL SITE | RI/FS |

MICHIGAN

| Site Name | Description | Project |
|--|--------------------------------------|---------|
| ** PHELPS COLLINS ANG (AIR FORCE) | | |
| SITE 1 | FORMER SITE OF HANGAR 9 | RI/FS |
| SITE 2 | MOTOR POOL AREA BLDGS 7 & 13 | RI/FS |
| SITE 3 | FORMER COUNTY GARAGE | RI/FS |
| SITE 4 | THIRD FIRE DEPARTMENT TRAINING AREA | RI/RO |
| SITE 5 | SECOND FIRE DEPARTMENT TRAINING AREA | RI/FS |
| SITE 6 | FORMER SOILD WASTE LANDFILL | RO |
| SITE 7 | FIRST FIRE DEPARTMENT TRAINING AREA | RI/FS |
| SITE 8 | FORMER RADAR TOWER | RI/FS |
| ** WURTSMITH (AIR FORCE) | | |
| SITE 1 | MPA OG TANKS | RA |
| SITE 2 | AF BEACH COMPLEX | RA |
| SITE 4 | SP-2 | RA |
| SITE 5 | SP-5 | RA |
| SITE 6 | SP-7 | RA |

MINNESOTA

| Site Name | Description | Project |
|----------------------------------|--------------------------|---------|
| ** TWIN CITIES AAP (ARMY) | | |
| SITE 1 | SLUDGE AND SUMP ANALYSIS | RA |
| SITE 3 | 129-3 | RI/RA |
| SITE 4 | 129-5 | RI/RA |
| SITE 5 | 129-15 | RI/RA |
| SITE 6 | A | RI/RA |
| SITE 7 | B | RI/RA |
| SITE 8 | C | RI/RA |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

MINNESOTA

| Site Name | | Description | Project |
|---|----|----------------------------------|---------|
| SITE | 9 | D | RI/RA |
| SITE | 10 | E | RI/RA |
| SITE | 11 | F | RI/RA |
| SITE | 12 | G | RI/RA |
| SITE | 13 | H | RI/RA |
| SITE | 14 | I | RI/RA |
| SITE | 15 | J | RI/RA |
| SITE | 16 | K | RI/RA |
| ** NIROP MINNEAPOLIS (NAVY) | | | |
| SITE | 1 | WASTE DISPOSAL TRENCHES | RI/FS |
| SITE | 2 | WASTE DISPOSAL PITS | RI/FS |
| SITE | 3 | AREA BENEATH THE NIROP BLDG | RI/FS |
| ** DULUTH IAP (AIR FORCE) | | | |
| SITE | 1 | RD-1 LOW LEVEL RADIOACTIVE WASTE | RI |
| SITE | 2 | #5 | RI |
| SITE | 3 | #6 | RI |
| SITE | 4 | #7 | RI |
| SITE | 5 | #9 | RI |
| SITE | 6 | S-2 DPDO STORAGE AREA C | RI |
| ** MINN ST. PAUL IAP (AIR FORCE) | | | |
| SITE | 5 | PAST FUEL SPILL AREA | RI/RA |

MISSOURI

| Site Name | | Description | Project |
|--|----|------------------------|---------|
| ** LAKE CITY AAP (ARMY) | | | |
| SITE | 1 | LANDFILL AND OTHERS | RI/FS |
| SITE | 2 | LAGOONS | RA |
| SITE | 3 | CONTAMINATED SOIL | RA |
| ** WELDON SPRING TRAINING AREA (ARMY) | | | |
| SITE | 1 | DOE/DA MOU | RI/FS |
| ** RICHARDS GEBEUR (AIR FORCE) | | | |
| SITE | 1 | SOUTH LANDFILL | RI |
| SITE | 2 | NORTHEAST LANDFILL | RI |
| SITE | 6 | NORTH BURN AREA | RI |
| SITE | 8 | HERBICIDE BURIAL AREA | RI |
| SITE | 9 | OIL SATURATED AREA | RI |
| SITE | 10 | HAZ WASTE DRUM STORAGE | RI |
| SITE | 12 | POL STORAGE AREA | RI |

MISSISSIPPI

| Site Name | | Description | Project |
|-------------------------------|---|-----------------------------|---------|
| ** CBC GULFPORT (NAVY) | | | |
| SITE | 1 | FIRE FIGHTING TRAINING AREA | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

MISSISSIPPI

| Site Name | Description | Project |
|-----------|----------------------------------|---------|
| SITE 2 | DISASTER RECOVERY DISPOSAL AREA | RI/FS |
| SITE 3 | WW II LANDFILL | RI/FS |
| SITE 4 | NW LANDFILL | RI/FS |
| SITE 5 | GOLF COURSE LANDFILL | RI/FS |
| SITE 6 | HEAVY EQ. TRAINING AREA LANDFILL | RI/FS |
| SITE 7 | RUBBLE DISPOSAL AREA | RI/FS |
| SITE 8 | BUILDING FOUNDATION 271 | RI/FS |

**** KEY FIELD ANG (AIR FORCE)**

| | | |
|--------|----------------|----|
| SITE 1 | KINGSLEY SITES | RI |
|--------|----------------|----|

MONTANA

| Site Name | Description | Project |
|---------------------------------|-----------------------------------|---------|
| ** MALMSTROM (AIR FORCE) | | |
| SITE 1 | SITE B FORMER FUEL STORAGE AREA 2 | RI |
| SITE 2 | PS-3 | RI |
| SITE 3 | OB-2 | RI |
| SITE 4 | SW-4 | RI |
| SITE 5 | SW-5 | RI |
| SITE 6 | SW-1 | RI |
| SITE 7 | OS-1 | RI |
| SITE 8 | IS-2 | RI |
| SITE 9 | OB-3 | RI |
| SITE 10 | SW-3 | RI |
| SITE 11 | PS-2 | RI |
| SITE 12 | PS-1 | RI |
| SITE 13 | WW-1 | RI |
| SITE 14 | IS-3 | RI |
| SITE 15 | FT-1 | RI |
| SITE 16 | PS-5 | RI |
| SITE 17 | IS-1 | RI |
| SITE 18 | PS-4 | RI |
| SITE 19 | SW-2 | RI |
| SITE 21 | OB-1 | RI |

NORTH CAROLINA

| Site Name | Description | Project |
|------------------------------------|-------------------------------------|---------|
| ** MCAS CHERRY POINT (NAVY) | | |
| SITE 1 | BORROW PIT/DUMP SITE | RI/FS |
| SITE 2 | BORROW PIT/LANDFILL | RI/FS |
| SITE 5 | OLD SANITARY LANDFILL | RI/FS |
| SITE 6 | AREA AND DITCH BEHIND NALF | RI/FS |
| SITE 7 | LANDFILL AT SANDY BRANCH | RI/FS |
| SITE 8 | OPDU STORAGE AREA | RI/FS |
| SITE 8 | BORROW PIT/LANDFILL NORTH OF RWY 14 | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

NORTH CAROLINA

| Site Name | Description | Project |
|-----------|-------------|---------|
|-----------|-------------|---------|

| | | | |
|------|----|----------------------------|-------|
| SITE | 9 | BORROW PIT/LANDFILL | RI/FS |
| SITE | 10 | STORAGE TANK FOR WASTE POL | RI/FS |
| SITE | 10 | FLY ASH PONDS | RI/FS |
| SITE | 11 | OLD INCINERATOR | RI/FS |
| SITE | 12 | TANK FARM A | RI/FS |
| SITE | 12 | FACILITIES MANT. COMPOUND | RI/FS |
| SITE | 13 | BORROW PIT/LANDFILL | RI/FS |

**** MCB CAMP LEJEUNE (NAVY)**

| | | | |
|------|----|------------------------------------|-------|
| SITE | 1 | CAMP GEIGER AREA FUEL FARM | RI/FS |
| SITE | 2 | FRENCH CREEK LIQUIDS DISPOSAL AREA | RI/FS |
| SITE | 3 | FORMER NURSERY/DAY CARE CENTER | RI/FS |
| SITE | 4 | STORAGE LOTS 201 AND 203 | RI/FS |
| SITE | 5 | FIRE FIGHTING TRAINING PIT | RI/FS |
| SITE | 6 | TRANSFORMER STORAGE LOT 140 | RI/FS |
| SITE | 7 | INDUSTRIAL TANK FARM AREA | RI/FS |
| SITE | 8 | INDUSTRIAL FLY ASH DUMP | RI/FS |
| SITE | 9 | HADNOT POINT BURN DUMP | RI/FS |
| SITE | 10 | SNEADS FERRY ROAD FUEL TANK AREA | RI/FS |
| SITE | 11 | CAMP GEIGER DUMP | RI/FS |
| SITE | 12 | UNDERGROUND AVGAS STORAGE | RI/FS |
| SITE | 13 | MCAS NEW RIVER MERCURY DUMP SITE | RI/FS |
| SITE | 14 | CRASH CHEW FIRE TRAINING | RI/FS |
| SITE | 15 | RIFLE RANGE DUMP | RI/FS |
| SITE | 16 | RIFLE RANGE CHEMICAL DUMP | RI/FS |
| SITE | 17 | LIQUID DISPOSAL | RI/FS |
| SITE | 18 | MESS HALL GREASE PIT AREA | RI/FS |
| SITE | 19 | BASKETBALL COURT SITE | RI/FS |
| SITE | 20 | CURTIS ROAD SITE | RI/FS |
| SITE | 21 | NEW RIVER OFFICER'S HOUSING AREA | RI/FS |
| SITE | 22 | RAPID REFUELING SITE | RI/FS |
| SITE | 23 | CAMP GEIGER AREA DUMP | RI/FS |

**** POPE (AIR FORCE)**

| | | | |
|------|---|------------------|----|
| SITE | 1 | FACILITY 452 | RA |
| SITE | 2 | POL BULK STORAGE | RA |

**** SEYMOUR JOHNSON AFB (AIR FORCE)**

| | | | |
|------|----|-----------------------------|-------|
| SITE | 1 | FUEL HYDRANT SYSTEM | RI |
| SITE | 2 | TANK FARM SPILL | RI |
| SITE | 3 | LANDFILL 1 | RI |
| SITE | 5 | #6 FIRE TRAINING AREA | RI |
| SITE | 6 | LANDFILL 4 | RI |
| SITE | 7 | FUEL TANK FUEL SPILL AREA A | FS |
| SITE | 13 | DITCH ADJACENT TO RR TRACKS | RI/FS |
| SITE | 14 | CSH DITCH | RI |

NORTH DAKOTA

| Site Name | Description | Project |
|-----------|-------------|---------|
|-----------|-------------|---------|

**** HECTOR ANG (AIR FORCE)**

| | | | |
|------|---|-----------------------|-------|
| SITE | 1 | NW ORIENT FUEL OUTLET | RI/FS |
|------|---|-----------------------|-------|

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

NORTH DAKOTA

| Site Name | | Description | Projects |
|-----------|---|------------------------|----------|
| SITE | 2 | BLDG 211 SPILL | RUFS |
| SITE | 3 | WASTE STORAGE FACILITY | RI |
| SITE | 4 | BLDG 370 SPILL | RI/FS |
| SITE | 5 | FIRE TRAINING AREA | RUFS |

NEBRASKA

| Site Name | | Description | Projects |
|---------------------------------|---|---------------------------|----------|
| ** CORNHUSKER AAP (ARMY) | | | |
| SITE | 2 | EARTHEN IMPOUNDMENTS (56) | RA |

NEW HAMPSHIRE

| Site Name | | Description | Projects |
|---|---|-------------------|----------|
| ** DFSP NEWINGTON (DEFENSE LOGISTICS AGENCY) | | | |
| SITE | 1 | WELLS AND BORINGS | RUFS |

NEW JERSEY

| Site Name | | Description | Projects |
|---------------------------------|----|-----------------------------------|----------|
| ** FORT DIX (ARMY) | | | |
| SITE | 3 | TCE DUMPSITE | RUFS |
| SITE | 4 | NPL LANDFILL | RUFS |
| SITE | 5 | DIO MAINTENANCE | RUFS |
| SITE | 6 | DIO TRANS DIV MOTOR POOL | RUFS |
| SITE | 7 | OPT AVIATION DIV | RUFS |
| SITE | 8 | DEM MOTOR POOL | RUFS |
| SITE | 9 | AAFES PX SERVICE STATION | RUFS |
| SITE | 10 | 5TH BOE MOTOR POOL | RUFS |
| SITE | 11 | 5TH BOE MAINTENANCE | RUFS |
| SITE | 12 | 2/3 BN MOTOR POOL | RUFS |
| SITE | 13 | 3/5 BN MOTOR POOL | RUFS |
| SITE | 14 | 78TH DIV RESERVES ECS 26 | RUFS |
| SITE | 15 | DPCA AUTO CRAFT SHOP | RUFS |
| SITE | 16 | 511/759TH MP MOTOR POOL | RUFS |
| SITE | 17 | 556TH MED AMB MOTOR POOL | RUFS |
| SITE | 18 | 39TH ENGR MOTOR POOL | RUFS |
| SITE | 19 | DIO MAINTENANCE | RUFS |
| ** NAEC LAKENURST (NAVY) | | | |
| SITE | 1 | BLIMP CRASH SITE | RUFS |
| SITE | 2 | RSTS TRACK 2 | RUFS |
| SITE | 3 | DRAINAGE DITCH | RUFS |
| SITE | 4 | DEADLOAD MAINTENANCE SHOP | RUFS |
| SITE | 5 | ARRESTING ENGINE TRACK 2 BLDG 371 | RUFS |
| SITE | 6 | HANGAR 2 DISPOSAL AREA | RUFS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

NEW JERSEY

| Site Name | | Description | Project# |
|-----------|----|---------------------------------------|----------|
| SITE | 7 | CATAPULT TEST FAC. | RI/FS |
| SITE | 8 | CATAPULT TEST STOR AREA | RI/FS |
| SITE | 9 | ARRESTING ENGINE TRACK, BLDG 529 | RI/FS |
| SITE | 10 | FUEL TRUCK STOR AREA | RI/FS |
| SITE | 11 | HANGAR 5 DISPOSAL AREA | RI/FS |
| SITE | 12 | FUEL STOR FAC 141 | RI/FS |
| SITE | 13 | FUEL FARM NO. 125 | RI/FS |
| SITE | 14 | OLD FIRE FIGHTING SCHOOL | RI/FS |
| SITE | 15 | BLDG 562 | RI/FS |
| SITE | 19 | NATTC FIRE FIGHTING TRAINING AREA | RI/FS |
| SITE | 20 | FUEL FARM NO 196 | RI/FS |
| SITE | 21 | EXCHANGE GAS STATION | RI/FS |
| SITE | 22 | SATS CATAPULT (7401 TEST SITE) | RI/FS |
| SITE | 23 | TETRAETHYL LEAD DISPOSAL SITE | RI/FS |
| SITE | 24 | JET-CAR MAINTENANCE SHOP | RI/FS |
| SITE | 25 | JET BLAST DEFLECTOR | RI/FS |
| SITE | 26 | DISPOSAL AREA | RI/FS |
| SITE | 27 | CATAPULT TEST SITE 7419 | RI/FS |
| SITE | 28 | TEST DEPT DISPOSAL AREA | RI/FS |
| SITE | 29 | CONTRACTOR DISPOSAL AREA | RI/FS |
| SITE | 30 | RSIS SCRAP SITE | RI/FS |
| SITE | 31 | WEST FIELD HANGAR AREA | RI/FS |
| SITE | 32 | ORIGINAL BASE LANDFILL | RI/FS |
| SITE | 33 | RSTS TRACK 4 RECOVERY END | RI/FS |
| SITE | 34 | SANITARY LANDFILL | RI/FS |
| SITE | 35 | RSTS LAUNCHING END | RI/FS |
| SITE | 36 | REFUELER REPAIR SHIP DRYWELL | RI/FS |
| SITE | 37 | PARACHUTE JUMP CIRCLE | RI/FS |
| SITE | 38 | HELICOPTER REFUELING AREA | RI/FS |
| SITE | 39 | HANGAR 1 DISPOSAL AREA | RI/FS |
| SITE | 40 | FUEL DISPOSAL AREA | RI/FS |
| SITE | 41 | OIL SKIMMING AND SLUDGE DISPOSAL AREA | RI/FS |
| SITE | 42 | POL DISPOSAL AT HANGAR 3 | RI/FS |
| SITE | 43 | SOIL STABILIZATION FIELD TEST | RI/FS |
| SITE | 44 | BASE LANDFILL | RI/FS |
| SITE | 45 | PCB STOR AND TESTING AREA | RI/FS |
| SITE | 46 | BOMARK SITE | RI/FS |

**** NAPC TRENTON (NAVY)**

| | | | |
|--|--|-----------------|-------|
| | | BAROMETRIC WELL | RI/FS |
|--|--|-----------------|-------|

**** NWS EARLE COLTS NECK (NAVY)**

| | | | |
|------|---|--------------------------------|-------|
| SITE | 1 | ORDNANCE DEMILITARIZATION SITE | RI/FS |
| SITE | 2 | LANDFILL SW OF "F" | RI/FS |
| SITE | 3 | LANDFILL WEST OF "D" | RI/FS |
| SITE | 4 | LANDFILL WEST OF ARMY BRIGADE | RI/FS |
| SITE | 5 | UNNAMED TRIBUTORS | RI/FS |

**** MCQUIRE (AIR FORCE)**

| | | | |
|------|---|-------------------------------|----|
| SITE | 1 | FIRE PROTECTION TRAINING AREA | RI |
|------|---|-------------------------------|----|

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

NEW JERSEY

| Site Name | | Description | Project |
|-----------|----|-----------------------------------|---------|
| SITE | 2 | FIRE PROTECTION TRAINING AREA 2 | RI |
| SITE | 3 | FIRE PROTECTION TRAINING AREA 3 | RI |
| SITE | 4 | LANDFILL 2 | RI |
| SITE | 5 | LANDFILL 3 | RI |
| SITE | 6 | LANDFILL 4 ZONE 1 | RI |
| SITE | 7 | LANDFILL 5 ZONE 1 | RI |
| SITE | 8 | LANDFILL 6 ZONE 1 | RI |
| SITE | 9 | DPDO STORAGE FACILITY | RI |
| SITE | 10 | MISSILE SITE TRANSFORMER LOCATION | RI |
| SITE | 11 | PESTICIDE WASH AREA | RI |
| SITE | 13 | MISSILE SITE MOGAS STORAGE TANKS | RI |
| SITE | 14 | NDI SHOP DRAIN FIELD | RI |
| SITE | 15 | MISSILE SITE ACCIDENT AREA | RI |
| SITE | 16 | PCB SPILL SITE | RI |
| SITE | 17 | BULK FUEL STORAGE TANK | RI |
| SITE | 18 | BULK FUEL STORAGE TANK | RI |
| SITE | 19 | BURIED OIL DRUMS | RI |
| SITE | 20 | MISSILE SITE JP-X DISCHARGE PIT | RI |
| SITE | 21 | WWTP SLUDGE DISPOSAL AREAS ZONE 1 | RI |
| SITE | 22 | MISSILE SITE NEUTRALIZED ACID PIT | RI |
| SITE | 23 | CLEWAN UP HAZ WASTE VARIOUS SITES | RA |

NEW MEXICO

| Site Name | | Description | Project |
|--|---|-----------------------------------|---------|
| ** WHITE SANDS MISSILE RANGE (ARMY) | | | |
| SITE | 1 | SEVERAL SITES | RVFS |
| ** CANNON AFB (AIR FORCE) | | | |
| SITE | 1 | ENTOMOLOGY RINSE AREA | RI |
| ** HOLLoman AFB (AIR FORCE) | | | |
| SITE | 1 | OIL SPILLS AT AIRCRAFT WASH RACKS | LTM |
| SITE | 5 | SERVICE STATION FUEL LEAK | RI |
| ** KIRTLAND AFB (AIR FORCE) | | | |
| SITE | 1 | | RO |

NEW YORK

| Site Name | | Description | Project |
|----------------------------------|---|--------------|---------|
| ** AFP NO. 38 (AIR FORCE) | | | |
| SITE | 1 | SALVAGE YARD | RVFS |
| SITE | 2 | WASTE SITE 1 | RI |
| SITE | 3 | WASTE SITE 2 | RI |
| SITE | 4 | WASTE SITE 3 | RI |
| SITE | 5 | WASTE SITE 4 | RVFS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

NEW YORK

| Site Name | | Description | Project |
|---|---|-----------------------------------|---------|
| SITE | 6 | HAZARDOUS WASTE POND | RI |
| SITE | 7 | DRAINAGE DITCH | RI |
| SITE | 8 | DAM | RI |
| ** AFP NO.59, JOHNSON CITY (AIR FORCE) | | | |
| SITE | 1 | SOUTHSIDE (Z) | RI |
| SITE | 2 | ZONE 1 DRUM SORAGE AREA | RI |
| SITE | 3 | CHOCANUT CREEK | RI |
| ** GRIFFISS AFB (AIR FORCE) | | | |
| SITE | 1 | CONTAMINATED SOIL FDA | FS |
| SITE | 2 | BLDG 210 | RI |
| SITE | 3 | THREE MILE CREEK | FS |
| SITE | 4 | BULK FUEL STORAGE AREA | RA |
| SITE | 6 | BLDG 26 UST | RI |
| SITE | 7 | CONTAMINATED AREA NEAR T9 | RI |
| SITE | 8 | UT AT NEWPORT AREA | RI |
| ** HANCOCK FIELD (AIR FORCE) | | | |
| SITE | 1 | D-1 DISPOSAL SITE | RI |
| SITE | 2 | D-3 DISPOSAL SITE | RI |
| SITE | 3 | D-5 DISPOSAL SITE | RI |
| SITE | 4 | FT-1 FIRE TRAINING AREA | RI |
| SITE | 5 | S-1 TRANSFORMER STORAGE AREA | RI |
| SITE | 6 | S-3 ENTOMOLGY UNDERGROUND STORAGE | RI |
| SITE | 7 | SP-1 OLD SPILL SITE | RI |
| SITE | 8 | UNOFFICAL DUMP SITE | RI |
| SITE | 9 | DRAINAGE/POND SWAMP | RI |
| ** PLATTSBURGH AFB (AIR FORCE) | | | |
| SITE | 1 | TIRE SHOP WASTE ACCUMULATION AREA | RA |
| ** STEWART ANG (AIR FORCE) | | | |
| SITE | 1 | LANDFILL | RI/FS |
| SITE | 2 | PESTICIDE BURIAL SITE | RI/RA |
| ** SUFFOLK ANG (AIR FORCE) | | | |
| SITE | 1 | FIRE TRAINING PIT | RI/FS |
| SITE | 2 | AREA AJACENT TO PARKING LOT | RI/FS |
| SITE | 3 | FORMER HW STORAGE BLDG 358 | RI/FS |
| SITE | 4 | CURRENT HW STORAGE BLDG 282 | RI/FS |
| SITE | 5 | AIRCRAFT REFUELING APRON | RI/FS |
| SITE | 6 | OPEN DITCH AREA | RI/FS |

OHIO

| Site Name | | Description | Project |
|---|---|------------------------------------|---------|
| ** AFP NO.36, EVANDALE (AIR FORCE) | | | |
| SITE | 1 | UNDERGROUND FUEL LEAK NW OF BLDG 8 | RA |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

OHIO

| Site Name | | Description | Project |
|--|----|--|---------|
| SITE | 2 | FUEL SPILL | RA |
| ** NEWARK AFS (AIR FORCE) | | | |
| SITE | 1 | SP-3 | RI |
| SITE | 2 | SP-4 | RI |
| SITE | 3 | SP-1 | RI |
| SITE | 4 | AT-1 | RI |
| ** RICKENBACKER ANG (AIR FORCE) | | | |
| SITE | 1 | HAZ WASTE STORAGE TANK AREA | RI/FS |
| SITE | 2 | JP-4 BULK STORAGE FARM | RI/FS |
| SITE | 3 | JP-4 PUMPING STATION 4 | RI/FS |
| SITE | 4 | AREA NEAR JP-4 PUMPING STATION 5 | RI/FS |
| SITE | 5 | SPILL AREA BETWEEN TAXIWAYS B & C | RI/FS |
| SITE | 6 | UG UNLEADED GASOLINE STORAGE TANK | RI/FS |
| SITE | 7 | SALVAGE YARD, FAC. NO. 906 | RI/FS |
| SITE | 8 | JP-4 FUEL LINE RUPTURE | RI/FS |
| SITE | 9 | OLD DRUM STORAGE AREA NEAR BLDG 873 | RI/FS |
| SITE | 10 | KC-35 CRASH | RI/FS |
| SITE | 11 | FUEL DUMP PIT | RI/FS |
| SITE | 12 | OLD ENTOMOLOGY LAB | RI/FS |
| SITE | 13 | DRAINAGE DITCH NR HEAT PLANT NORTH COAL | RI/FS |
| SITE | 14 | DRAIN DITCH NR HEAT PLNT SOUTH COAL PILE | RI/FS |
| SITE | 15 | DRUM BHND H2O TREAT PLANT SLUDGE BED | RI/FS |
| SITE | 16 | OUTDOOR LUBE DRUM STORAGE NR HEAT PLANT | RI/FS |
| SITE | 17 | FIRE TRAINING AREA | RI/FS |
| SITE | 18 | SANITARY SEWAGE TREATMENT SLUDGE BED | RI/FS |
| SITE | 19 | STORM DRAIN DITCH SYSTEM | RI/FS |
| SITE | 20 | ELECTRICAL TRANSFORMER STORAGE YARD | RI/FS |
| SITE | 21 | DRAINAGE DITCH NEAR LANDFILL | RI/FS |
| ** WRIGHT PATTERSON AFB (AIR FORCE) | | | |
| SITE | 30 | DEACTIVATED NUCLEAR REACTOR | RI/FS |
| ** WRIGHT-PATTERSON AFB (AIR FORCE) | | | |
| SITE | 1 | COAL STORAGE PILE | RI |
| SITE | 2 | AREAS A, B, AND C | RI |
| SITE | 3 | CENTRAL HEAT PLANT 1 | RI |
| SITE | 4 | CENTRAL HEATING PLANT 2 | RI |
| SITE | 5 | CENTRAL HEATING PLANT 3 | RI |
| SITE | 6 | CENTRAL HEATING PLANT 4 | RI |
| SITE | 7 | CENTRAL HEATING PLANT 5 | RI |
| SITE | 8 | LANDFILL 1 | RI |
| SITE | 9 | LANDFILL 2 | RI |
| SITE | 10 | LANDFILL 3 | RI |
| SITE | 11 | BURIAL SITE 1 | RI/FS |
| SITE | 12 | BURIAL SITE 2 | RI/FS |
| SITE | 13 | FT AREA 2 | RI/FS |
| SITE | 14 | LF 5 | RI/FS |
| SITE | 15 | LANDFILL 8 | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

OHIO

| Site Name | Description | Project |
|------------------|-------------------------------|----------------|
| SITE 16 | LANDFILL 9 | RI/FS |
| SITE 17 | LANDFILL 10 | RI |
| SITE 18 | LANDFILL 11 | RI |
| SITE 19 | LANDFILL 12 | RI/RA |
| SITE 20 | FDTA 1 | RI |
| SITE 21 | UNDERGROUND TANKS AREA B | RI/FS |
| SITE 22 | FDTA 3 | RI |
| SITE 23 | UNDERGROUND TANKS AREA C | RI/FS |
| SITE 24 | RADIOACTIVE WASTE BURIAL SITE | RI/FS |
| SITE 25 | SPILL 2 | RI |
| SITE 26 | SPILL 3 | RI |
| SITE 30 | LANDFILL 13 | RI |

**** YOUNGSTOWN (AIR FORCE)**

| | | |
|--------|-------------------------------|----|
| SITE 1 | PAR COURSE DRUM STORAGE | RI |
| SITE 2 | WASTE OIL SOLVENT CORRAL | RI |
| SITE 3 | POL LEAD SLUDGE DISPOSAL AREA | RI |
| SITE 4 | TRANSFORMER STORAGE AREA | RI |

OKLAHOMA

| Site Name | Description | Project |
|---------------------------------|---------------------------------------|----------------|
| ** ALTUS AFB (AIR FORCE) | | |
| SITE 1 | INDUSTRIAL WASTE LAGOON(AGE WASHRACK) | RI |
| SITE 2 | FPA 1 | RI |
| SITE 3 | AIRCRAFT WASHRACK POND | RI |
| SITE 5 | FTA 2 | RI |
| SITE 6 | FTA 3 | RI |
| SITE 7 | FTA4 | RI |
| SITE 8 | LF 1 | RI |
| SITE 9 | LF 2 | RI |
| SITE 10 | LF 3 | RI |

**** TINKER (AIR FORCE)**

| | | |
|---------|-------------------------------|-------|
| SITE 1 | LANDFILL 2 | RI |
| SITE 3 | BLDG 3001 | RI |
| SITE 4 | 3108 AREA RAP | RI |
| SITE 5 | CRUTCHO KULHMAN AND ELM CREEK | RI |
| SITE 6 | LANDFILL 4 | RI |
| SITE 7 | LANDFILL 6 | RI |
| SITE 8 | EAST SOLDIER'S CREEK | RI/RA |
| SITE 9 | FDTA 1 | RI |
| SITE 10 | IWTP TANKS | RI |
| SITE 11 | POL TANK FARM/AUST | RI |
| SITE 12 | WELLS 18 AND 19 | RI |
| SITE 13 | FDTA 2 | RI |
| SITE 14 | LANDFILL 1 | RI |
| SITE 15 | LANDFILL 5 | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

OKLAHOMA

| Site Name | Description | Project |
|-----------|------------------------------|---------|
| SITE 16 | FACILITY 1123 | RI |
| SITE 17 | RWDS 1022E | RI |
| SITE 18 | RWDS 201S | RI |
| SITE 19 | RWDS 62598 | RI |
| SITE 20 | ALL SITES UNSPECIFIED NUMBER | RI |
| SITE 21 | LANDFILL NO. 3 | RI |
| SITE 22 | INDUSTIAL WASTE PIT 1 | RI |
| SITE 23 | INDUSTRIAL WASTE PIT 2 | RI |

**** VANCE AFB (AIR FORCE)**

| | | |
|---------|----------------------------------|----|
| SITE 1 | CHEMICAL DISPOSAL PIT | FS |
| SITE 2 | UST FUEL TEST CELL | FS |
| SITE 3 | TANK FARM LANDFILL | FS |
| SITE 7 | SITE 7 | FS |
| SITE 8 | SITE 8 | FS |
| SITE 9 | SITE 9 | FS |
| SITE 10 | AUX FIRE TRAINING AREA | FS |
| SITE 11 | FIRE FIGHTER TRAINING AREA | FS |
| SITE 12 | EAST BOUNDRY LANDFILL | FS |
| SITE 13 | SOUTHEAST LANDFILL | FS |
| SITE 14 | AQUA/AVGAS SYSTEM | FS |
| SITE 15 | STORAGE TANK AREA 110 | FS |
| SITE 16 | HAZARDOUS WASTE ACCUMULATION PIT | FS |
| SITE 17 | TANK SLUDGE DISPOSAL AREA | FS |

OREGON

| Site Name | Description | Project |
|------------------------------------|-----------------------------|---------|
| ** PORTLAND ANG (AIR FORCE) | | |
| SITE 1 | CENTRAL TEMPORARY STOR.AREA | RI/FS |
| SITE 2 | CE HAZ MATRL STORAGE AREA | RI/FS |
| SITE 3 | HUSH HOUSE | RI/FS |
| SITE 4 | MAIN DRAINAGE DITCH | RI/FS |
| SITE 5 | AGE MAINTENANCE SHOP | RI/FS |
| SITE 6 | BURN PIT AREA | RI/FS |
| SITE 7 | SANITARY LANDFILL | RI/FS |
| SITE 8 | NORTH BEND ANG | RI/FS |

PENNSYLVANIA

| Site Name | Description | Project |
|---|--------------------------|---------|
| ** LETTERKENNY ARMY DEPOT (ARMY) | | |
| SITE 1 | DPDO AREA | RI/FS |
| SITE 2 | DISPOSAL AREA | RI/FS |
| SITE 3 | LAGOON | RI/FS |
| SITE 4 | SOUTHEAST INDUTRIAL AREA | RI/FS |

**** NEW CUMBERLAND AD (ARMY)**

| | | |
|--------|-----------------------------|----|
| SITE 1 | EASTERN DISTRIBUTION CENTER | RA |
|--------|-----------------------------|----|

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

PENNSYLVANIA

| Site Name | Description | Project |
|--|----------------------------------|---------|
| SITE 3 | SOLVENT TANK T-950 | RA |
| ** NSY PHILADELPHIA (NAVY) | | |
| SITE 1 | TRANSFORMER STOR. AREA B 825 | RI/FS |
| SITE 2 | BLASTING GRIT AND DRUM DISP AREA | RI/FS |
| SITE 3 | CYLINDER DISP. AREA | RI/FS |
| SITE 4 | FUEL FARM | RI/FS |
| SITE 5 | SUBSTATION 82 TRANSF. OIL SPILL | RI/FS |
| SITE 7 | B 546-PCB TRANSFORMER SPILL | RI/FS |
| ** GREATER PITTSBURGH IAP (AIR FORCE) | | |
| SITE 5 | A-7 WASTE OIL TANKS | RI/RA |
| SITE 11 | MOTOR POOL AREA | RI/RA |
| ** WILLOW GROVE ARF (AIR FORCE) | | |
| SITE 1 | HEATING PLANT | RI |
| SITE 2 | OPEN WASTE STORAGE YARD | FS |
| SITE 3 | PONDING AREA | FS |
| SITE 4 | POL AREA | FS |
| SITE 5 | OLD WELL HOUSE | RI |
| SITE 6 | WASHRACK AREA | RI |
| SITE 7 | WASTE OIL STORAGE AREA | RI |

PUERTO RICO

| Site Name | Description | Project |
|-------------------------------------|----------------------------|---------|
| ** NS ROOSEVELT ROADS (NAVY) | | |
| SITE 1 | IRRNA/MAF-4 DISPOSAL SITE | RI/FS |
| SITE 2 | OLD POWER PLANK, BLDG 38 | RI/FS |
| SITE 5 | QUEBRADA DISP SITE | RI/FS |
| SITE 6 | MANGROVE DISP. SITE | RI/FS |
| SITE 7 | ARMY CREMATOR DISP AREA | RI/FS |
| SITE 8 | LANGLEY DR DISP. AREA | RI/FS |
| SITE 9 | DRONE WASHDOWN | RI/FS |
| SITE 10 | STATION LANDFILL | RI/FS |
| SITE 11 | PCB DISPOSAL DRY DOCK AREA | RI/FS |
| SITE 12 | BLDG 25 | RI/FS |
| SITE 13 | BLDG 145 | RI/FS |
| SITE 14 | TWO WAY RD FUEL FARM | RI/FS |
| SITE 15 | TANKS 210 TO 217 | RI/FS |
| SITE 16 | EMSEN HONDA SHORELINE MAG. | RI/FS |
| SITE 18 | SUBSTATION 2 | RI/FS |

SOUTH CAROLINA

| Site Name | Description | Project |
|---------------------------------|-------------------------------------|---------|
| ** NWS CHARLESTON (NAVY) | | |
| SITE 1 | OLD SOUTH SIDE PESTICIDE RINSE AREA | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

SOUTH CAROLINA

| Site Name | | Description | Project |
|--|----|--|---------|
| SITE | 3 | SOUTH SIDE LNDFL | RI/FS |
| SITE | 4 | NORTH SIDE LNDFL | RI/FS |
| SITE | 5 | NORTH SIDE BURN AREA | RI/FS |
| SITE | 6 | S. ANNEX WASTE DISPOSAL AREA | RI/FS |
| SITE | 7 | S. ANNEX MUNITIONS DISPOSAL | RI/FS |
| SITE | 8 | PCP DIP TANK AT BLDG 88 | RI/FS |
| ** CHARLESTON AFB (AIR FORCE) | | | |
| SITE | 2 | CONTAMINATED LAGOON | RA |
| SITE | 20 | BURIED AREA | RA |
| ** MCENTIRE ANG (AIR FORCE) | | | |
| SITE | 2 | FPTA 5 | RI |
| SITE | 3 | OIL DUMP SITE | RI |
| SITE | 4 | C141 SPILL AREA | RI |
| SITE | 5 | 4Y WASTE STORAGE FAC. AREA STORAGE | RI |
| ** SHAW AFB (AIR FORCE) | | | |
| SITE | 1 | JP-4 SPILL | RI |
| ** DFSP CHARLESTON (DEFENSE LOGISTICS AGENCY) | | | |
| SITE | 1 | OFF-SITE WELLS, BORINGS, SOIL ANALYSIS | RI/FS |

SOUTH DAKOTA

| Site Name | | Description | Project |
|--------------------------------|---|---------------------------|---------|
| ** JOE FOSS (AIR FORCE) | | | |
| SITE | 1 | UNDERGROUND STORAGE TANKS | RI/FS |
| SITE | 2 | FIRE TRAINING AREA TANKS | RI/FS |

TENNESSEE

| Site Name | | Description | Project |
|----------------------------------|---|---|---------|
| ** MILAN AAP (ARMY) | | | |
| SITE | 1 | HIGH PRESSURE WASHOUT SYSTEM | RI/FS |
| SITE | 2 | OPEN BURNING/OPEN DETONATION AREA | RI/FS |
| ** VOLUNTEER AAP (ARMY) | | | |
| SITE | 1 | MONITORING | RI/FS |
| ** ARNOLD AFB (AIR FORCE) | | | |
| SITE | 1 | LANDFILL 2 LEACHATE PIT 2 | RI/RO |
| SITE | 2 | J-4 RETENTION RESVR AREA SURFACE DRAINAGE | RI |
| SITE | 3 | LANDFILL 4 | RI |
| SITE | 4 | SURFACE DRAINAGE BRADLEY | RI |
| SITE | 5 | SURFACE DRAINAGE ROLLINS | RI |
| SITE | 6 | CAMP FORREST WATER TREATMENT PLANT | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

TENNESSEE

| Site Name | Description | Project |
|-----------|------------------------------------|---------|
| SITE 7 | AEDC TESTING AREA | RI |
| SITE 8 | LEACHING PIT NUMBER 1 | RI |
| SITE 9 | SURFACE DRAINAGE BRUMALOW | RI |
| SITE 10 | PROTECTION AREA 2/BURN AREA 2/LF 1 | RI/RA |
| SITE 11 | CHEMICAL TREATMENT POND | RI |
| SITE 12 | RETENTION LEACH/BURN AREA | RI |
| SITE 13 | FPTA 1 | RI |
| SITE 14 | SURFACE DRAINAGE CRUMPTON | RI |
| SITE 15 | PEF BURN/BURIAL AREA | RI |
| SITE 16 | BERRYLIUM LEACHING PIT | RI |
| SITE 17 | BURN AREA 2 | RI |

**** DDMT MEMPHIS (DEFENSE LOGISTICS AGENCY)**

| | | |
|--------|--|----|
| SITE 1 | CLEAN-UP HM RECOUPMENT AREA, REMOVE DIOX | RA |
|--------|--|----|

TRUST TERRITORIES

| Site Name | Description | Project |
|-----------------------------------|-------------------------------|---------|
| ** WAKE ISLAND (AIR FORCE) | | |
| SITE 1 | 1500 LIQUID FUEL STORAGE AREA | RI |
| SITE 2 | SITE 7 | RI |
| SITE 3 | 1800 LIQUID FUEL STORAGE | RI |
| SITE 4 | 1700 LIQUID FUEL STORAGE | RI |
| SITE 5 | SITE 13 | RI |
| SITE 6 | SITE 14 | RI |
| SITE 7 | SITE 10 | RI |
| SITE 8 | SITE 9 | RI |
| SITE 9 | SITE 4 | RI |
| SITE 10 | SITE 5 | RI |
| SITE 11 | SITE 8 | RI |
| SITE 12 | SITE 11 | RI |
| SITE 13 | IND, LNOFL, FTA | RI |
| SITE 14 | SITE 12 | RI |
| SITE 15 | SITE 6 | RI |
| SITE 16 | SITE 15 | RI |

TEXAS

| Site Name | Description | Project |
|--------------------------------|-----------------------------|---------|
| ** FORT BLISS (ARMY) | | |
| SITE 1 | FIRE FIGHTING TRAINING AREA | RI/FS |
| ** LONE STAR AAP (ARMY) | | |
| SITE 5 | MIGRATION MANAGEMENT | RI/FS |
| SITE 6 | OLD DEMOLITION GROUNDS | RI/FS |
| SITE 7 | OLD WELLS AND CISTERNS | RI/FS |
| ** LONGHORN AAP (ARMY) | | |
| SITE 3 | UNLINED EVAPORATION POND | RA |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

TEXAS

| Site Name | | Description | Project |
|---|----|------------------------------------|---------|
| ** RED RIVER ARMY DEPOT (ARMY) | | | |
| SITE | 1 | OTC AREA | RA |
| SITE | 2 | CHROMATE SLUDGE BED | RA |
| ** NAS CHASE FIELD (NAVY) | | | |
| SITE | 1 | NW RUBBLE DISP. AREA | RI/FS |
| SITE | 2 | SE DISP. AREA | RI/FS |
| SITE | 3 | FIRE FIGHTING TRAINING AREA | RI/FS |
| SITE | 4 | OLD FIRE FIGHTING TRAINING AREA | RI/FS |
| ** NAS CORPUS CHRISTI (NAVY) | | | |
| SITE | 1 | CCAD LIQUID WASTE DISP AREA | RI/FS |
| SITE | 2 | DPDO LNDFL | RI/FS |
| SITE | 3 | NORHT GATE DISPOSAL AREA | RI/FS |
| SITE | 4 | FUEL FARM 216 | RI/FS |
| ** NAS DALLAS (NAVY) | | | |
| SITE | 1 | FORMER FIRE FIGHTING TRAINING AREA | RI/FS |
| SITE | 2 | RUBBLE LANDFILL | RI/FS |
| SITE | 3 | PCB LEAK | RI/FS |
| SITE | 4 | PAINT STRIPPING AREA | RI/FS |
| SITE | 5 | TANG AREA DRAINAGE DITCH | RI/FS |
| ** NAS KINGSVILLE (NAVY) | | | |
| SITE | 1 | SEWEAGE TREATMENT PLANT LNDFL | RI/FS |
| SITE | 3 | TRANS. MTR POOL | RI/FS |
| SITE | 5 | FIRE FIGHTING TRAINING AREA | RI/FS |
| SITE | 6 | LNDFL | RI/FS |
| SITE | 7 | WASTE POL/SOLVENT DISP. | RI/FS |
| SITE | 8 | AVGAS FUEL FARM-SOUTH FIELD | RI/FS |
| SITE | 10 | AVGAS FUEL FARM-NORTH FIELD | RI/FS |
| ** HWIRP DALLAS (NAVY) | | | |
| SITE | 1 | E. DRAINAGE LAGOON | RI/FS |
| SITE | 2 | W. OIL BURNER & DRUM AREA | RI/FS |
| SITE | 4 | INO SLUDGE DRUM STOR. | RI/FS |
| SITE | 5 | WASTE POL SPILL | RI/FS |
| SITE | 6 | FORMER ACID NEUT PIT | RI/FS |
| SITE | 7 | IWC PIPELINE LEAK | RI/FS |
| SITE | 8 | FORMER REFUSE BURN PIT | RI/FS |
| SITE | 9 | FIREBRICK BURIAL SITE | RI/FS |
| SITE | 10 | W. DRAINAGE LAGOON | RI/FS |
| ** AFB NO.4, FT. WORTH (AIR FORCE) | | | |
| SITE | 1 | LANDFILL 1 | RA |
| SITE | 2 | LANDFILL 2 | RA |
| SITE | 3 | LANDFILL 3 | RA |
| SITE | 4 | LANDFILL 4 | RA |
| SITE | 5 | FOTA 2 | RA |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

TEXAS

| Site Name | | Description | Project |
|--|----|-------------------------------------|---------|
| SITE | 6 | FDTA 3 | RA |
| SITE | 7 | FDTA 4 | RA |
| SITE | 8 | FDTA 5 | RA |
| SITE | 9 | FDTA 6 | RA |
| SITE | 10 | CHROME PIT 1 | RA |
| SITE | 11 | CHROME PIT 2 | RA |
| SITE | 12 | CHROME PIT 3 | RA |
| SITE | 13 | DYE PITS | RA |
| SITE | 14 | FUEL SATURATED AREA 1 | RA |
| SITE | 15 | FUEL SATURATED AREA 2 | RA |
| SITE | 16 | FUEL SATURATED AREA 3 | RA |
| SITE | 17 | FORMER FUEL STORAGE | RA |
| SITE | 18 | SOLVENT LINES | RA |
| SITE | 19 | NARF AREA | RA |
| SITE | 20 | WASTEWATER COLLECTION BASINS | RA |
| ** AFP NO.4, FT.WORTH (AIR FORCE) | | | |
| SITE | 21 | WEST COMPASS ROSE | RA |
| SITE | 22 | "WINDOW" EAST CORNER OF BASE | RA |
| ** BERGSTROM AFB (AIR FORCE) | | | |
| SITE | 1 | LANDFILL 3 | RI |
| SITE | 2 | LANDFILL 4 | RI |
| SITE | 3 | FTA 23 | RI/FS |
| SITE | 4 | LANDFILL 5 | RI |
| SITE | 5 | LANDFILL 6 | RI |
| SITE | 6 | LANDFILL 7 | RI |
| SITE | 7 | JP-4 SPILL/OPEN PIPELINE | RI |
| SITE | 8 | ROAD OILING | RI |
| SITE | 9 | MOGAS SPILL AT MOTOR POOL | RI |
| SITE | 10 | SOUTH FORK DRAINAGE DITCH | RI |
| ** BROOKS (AIR FORCE) | | | |
| SITE | 1 | PCB TRANSFORMER OIL CONTAM BLDG 100 | RA |
| ** DYESS (AIR FORCE) | | | |
| SITE | 1 | UNDERGROUND RAILROAD TANK CAR | RA |
| ** ELLINGTON ANG (AIR FORCE) | | | |
| SITE | 1 | POL TANK FARM | RI/FS |
| SITE | 2 | FORMER BASE LANDFILL | RI/FS |
| ** GOODFELLOW AFB (AIR FORCE) | | | |
| SITE | 1 | DRUM STORAGE | RI |
| SITE | 2 | SOUTH LANDFILL | RI |
| SITE | 3 | SOUTHEAST LANDFILL | RI |
| SITE | 4 | FUEL STORAGE AREA | RI |
| ** KELLY AFB (AIR FORCE) | | | |
| SITE | 1 | SA 4 | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

TEXAS

| Site Name | | Description | Project |
|-----------|----|---------------------------------|---------|
| SITE | 2 | GREEN WORM AREA | RI |
| SITE | 3 | 600 AREA | RI |
| SITE | 4 | SA-2 | RI/RA |
| SITE | 5 | IS-1 | RI |
| SITE | 6 | S-6 | RI |
| SITE | 7 | SA-3 | RI |
| SITE | 8 | S-2 | RI |
| SITE | 9 | S-7 | RI |
| SITE | 10 | SD-2 | RI |
| SITE | 11 | RD-1 | RI |
| SITE | 12 | S-3 | RI |
| SITE | 13 | D-6 | RI |
| SITE | 14 | RD-2 | RI |
| SITE | 15 | D-1 | RI |
| SITE | 16 | FC-1 | RI |
| SITE | 17 | FC-2 | RI |
| SITE | 18 | D-4 | RI |
| SITE | 19 | D-2 | RI |
| SITE | 20 | S-1 | RI |
| SITE | 21 | E-1 | RI |
| SITE | 22 | S-4 | RI |
| SITE | 23 | E-3 | RI |
| SITE | 24 | SITE 4 COAL FLYASH DISPOSAL | RI |
| SITE | 25 | SITE 5 COAL FLYASH DISPOSAL | RI |
| SITE | 25 | SITE 7-ABANDONED FTA | RI |
| SITE | 26 | SITE 10 POL STORAGE AREA | RI |
| SITE | 27 | SECURITY FENCE AREA | RI |
| SITE | 28 | SITE D-3 LANDFILL | RI |
| SITE | 29 | SITE D-5 LANDFILL | RI |
| SITE | 30 | SITE D-7 LANDFILL | RI |
| SITE | 31 | SITE D-7 LANDFILL | RI |
| SITE | 31 | SITE D-10 TAR PIT | RI/FS |
| SITE | 32 | SITE F-2 OIL EVAPORATION PIT | RI |
| SITE | 33 | LIQUID WASTE INCINERATOR SITE | RI |
| SITE | 34 | SITE SA-2 SLUDGE SPREADING AREA | RI |
| SITE | 35 | LS-1 WASTE SITE | RI |
| SITE | 36 | E-3 OIL EVAPORATION PIT | FS |

**** LACKLAND (AIR FORCE)**

| | | | |
|------|----|------------------------------------|----|
| SITE | 1 | ABANDON UST 300 AREA | RI |
| SITE | 2 | ABANDON UST 400 AREA | RI |
| SITE | 3 | ABANDONED UST 100 AREA | RI |
| SITE | 4 | ABANDONED UST 700 AREA | RI |
| SITE | 5 | LOW LEVEL RADIOACTIVE DISP 423 | RI |
| SITE | 6 | LOW LEVEL RADIOACTIVE DISP 401 | RI |
| SITE | 7 | LOW LEVEL RADIOACTIVE DISPOSAL 429 | RI |
| SITE | 8 | LOW LEVEL RADIOACTIVE DISPOSAL 430 | RI |
| SITE | 9 | LOW LEVEL RADIOACTIVE DISP 444 | RI |
| SITE | 10 | LOW LEVEL RADIOACTIVE DISP 508 | RI |
| SITE | 11 | FPTA 2 | RI |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

TEXAS

| Site Name | | Description | Project |
|---------------------------------|----|-----------------------------------|---------|
| SITE | 12 | FPTA NO.2 | RI |
| SITE | 13 | LANDFILL 4 | RI |
| SITE | 14 | EXPOSIVE ORDNANCE BURN PIT | RI |
| SITE | 15 | WASTE BURNING GROUNDS | RI |
| SITE | 16 | LEACHING AREA 465 | RI |
| SITE | 17 | LEACHING AREA 7595 | RI |
| ** LAUGHLIN (AIR FORCE) | | | |
| SITE | 1 | SUPPLY STORAGE AREA | RI |
| SITE | 2 | SOUTH BOUNDARY DIKE | RI |
| SITE | 3 | DEFUEL PIT | RI |
| SITE | 4 | DPDO | RI |
| SITE | 5 | FIRE FIGHTING TRAINING AREA | RI |
| SITE | 6 | SLUDGE DISPOSAL AREA | RI |
| SITE | 7 | BASE LANDFILL | RI |
| SITE | 8 | NEW INDUSTRIAL WASTE POND | RI |
| SITE | 9 | OLD INDUSTRIAL WASTE POND | RI |
| ** RANDOLPH (AIR FORCE) | | | |
| SITE | 1 | TF 73 | RI |
| SITE | 2 | TF 13 | RI |
| SITE | 3 | TF 4 | RI |
| SITE | 4 | TF 15038 | RI |
| SITE | 5 | TF 875 | RI |
| SITE | 6 | TF 675 | RI |
| SITE | 7 | TF 35 | RI |
| SITE | 8 | FPTA 2 | RI |
| SITE | 9 | LANDFILL 2 | RI |
| SITE | 10 | TANK T 16 | RI |
| SITE | 11 | T 24, T 25 | RI |
| SITE | 12 | POL TANK SLUDGE DISPOSAL AREA | RI |
| ** REESE AFB (AIR FORCE) | | | |
| SITE | 1 | D 1 | RI |
| SITE | 2 | SI 1 | RI |
| SITE | 3 | D 4 | RI |
| SITE | 4 | D 5 | RI |
| SITE | 5 | D 11 | RI |
| SITE | 6 | SI 2 | RI |
| SITE | 7 | SI 4 | RI |
| SITE | 8 | FT 1 | RI |
| SITE | 9 | SP 1 | RI |
| SITE | 10 | SEWAGE DIGESTER SLUDGE AREA | RI |
| SITE | 11 | POL STORAGE AREA | RI |
| SITE | 12 | SEWAGE LAKE | RI |
| SITE | 14 | SEWAGE FT 3 | RI |
| SITE | 15 | HURLWOOD ACQUISITION AND LANDFILL | RI |

UTAH

| Site Name | | Description | Project |
|--|---|-------------|---------|
| ** DUGWAY PROVING GROUND (ARMY) | | | |
| SITE | 1 | OPEN PITS | 46FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

UTAH

| Site Name | | Description | Project |
|--|-----|------------------------------------|---------|
| SITE | 2 | DUMP SITE | RI/FS |
| ** TOOELE AD (ARMY) | | | |
| SITE | 1 | WINDOWS | RI/FS |
| SITE | 2 | INDUSTRIAL WASTE POND | RI/FS |
| SITE | 3 | CAMDS | RI/FS |
| SITE | 4 | GRAVEL PIT | RI/FS |
| SITE | 5 | PITS (UNKNOWN NUMBER) | RI/FS |
| SITE | 6 | MUSTARD HOLDING AREA | RI/FS |
| SITE | 7 | EXPLOSION CRATERS | RI/FS |
| SITE | 11 | DRAINAGE PONDS | RI/FS |
| SITE | 12 | SPOIL AREA | RI/FS |
| ** HILL AFB (AIR FORCE) | | | |
| SITE | 1 | SODIUM HYDROXIDE SPILL | RI |
| SITE | 2 | BERMAN POND | RI/RA |
| SITE | 3 | IWTP DRYING BED | RI |
| SITE | 4 | MTN. DRYING BEDS | RI |
| SITE | 5 | LANDFILL 1 | RI |
| SITE | 6 | LANDFILL 2 | RI |
| SITE | 7 | LANDFILL 3 | RI/RA |
| SITE | 8 | LANDFILL 4 | RI/RA |
| SITE | 9 | LANDFILL 5 | RI/RA |
| SITE | 10 | HERBICIDE ORANGE TEST PLOT | RI |
| SITE | 11 | DISPOSAL PITS | RI |
| SITE | 12 | CHEMICAL DISPOSAL PIT 1 | RI/RA |
| SITE | 13 | CHEMICAL DISPOSAL PIT 2 | RI/RA |
| SITE | 14 | CHEMICAL DISPOSAL PIT 3 | RI/RA |
| SITE | 15 | PERIMETER ROAD | RI |
| SITE | 16 | SWAMP LEACH FIELD | RI |
| SITE | 17 | POND 3 | RI |
| SITE | 18 | B22 UNDER GROUND TANKS | RI/RA |
| SITE | 19 | US ARMY TOOELE RAIL SHOP | RI |
| SITE | 30 | SITE 3 LANDFILL | RI |
| SITE | 31 | SITE 4 | RI |
| SITE | 32 | SITE 5 | RI |
| SITE | 33 | SITE 6 | RI |
| SITE | 34 | PCB BURN PIT | RI |
| SITE | 35 | SPOIL PIT | RI |
| SITE | 36 | FIRE TRAINING AREA 1 | RI |
| SITE | 36 | GOLF COURSE | RI |
| SITE | 37 | BAMBERGER POND | RI |
| SITE | 389 | REFUELING AREA JP 4 FUEL SPILL | RI |
| SITE | 39 | CHEMICAL DISPOSAL PITS NOS 1 AND 2 | RA |
| SITE | 40 | SITE 2 | RA |
| ** OGDEN (DEFENSE LOGISTICS AGENCY) | | | |
| SITE | 1 | FORMER LANDFILLS (CONTRACT ADMIN) | RI/FS |

VIRGINIA

| Site Name | | Description | Project |
|------------------------------|---|-----------------------------|---------|
| ** FORT EUSTIS (ARMY) | | | |
| SITE | 1 | HELICOPTER MAINTENANCE AREA | RI/FS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

VIRGINIA

| Site Name | | Description | Project |
|--|---|---|---------|
| SITE | 3 | SEVERAL OLD LANDFILLS | RVFS |
| ** RADFORD AAP (ARMY) | | | |
| SITE | 1 | LAGOON | RA |
| SITE | 2 | OTHER SITES | RVFS |
| ** WOODBRIDGE RESEARCH FACILITY (ARMY) | | | |
| SITE | 2 | PCB BURIAL SITE | RVFS |
| ** MCDEC QUANTICO (NAVY) | | | |
| SITE | 1 | PESTICIDE BURIAL AREA (SITE 1) | RVFS |
| SITE | 2 | OLD LANDFILL (SITE 4) | RVFS |
| SITE | 3 | OLD BATCH PLANT (SITE 5) | RVFS |
| SITE | 4 | RECENTLY CLOSED LANDFILL (SITE 7) | RVFS |
| SITE | 5 | ARSENIC DISPOSAL AREA (SITE 17) | RVFS |
| ** PWC NORFOLK (NAVY) | | | |
| SITE | 4 | P-71 TRANSFORMER STORAGE AREA | RVFS |
| ** BYRD ANG (AIR FORCE) | | | |
| SITE | 1 | S 1 | RVFS |
| SITE | 2 | S 2 | RVFS |
| SITE | 3 | S 3 | RVFS |
| SITE | 4 | S 4 | RVFS |
| SITE | 5 | S 5 | RVFS |
| ** LANGLEY AFB (AIR FORCE) | | | |
| SITE | 2 | FUEL SATURATED AREA | RVRA |
| ** DGSC RICHMOND (DEFENSE LOGISTICS AGENCY) | | | |
| SITE | 1 | SOIL BORINGS, SAMPLING AND FINAL REPORT | RVFS |

WASHINGTON

| Site Name | | Description | Project |
|-------------------------------------|---|-----------------------------|---------|
| ** FORT LEWIS (ARMY) | | | |
| SITE | 2 | FIRE PIT/EOO RANGE | RVFS |
| SITE | 3 | LANDFILL 5 | RVFS |
| SITE | 4 | LOG CENTER | RVFS |
| ** NAS WHIDBEY ISLAND (NAVY) | | | |
| SITE | 1 | WESERN HIGHLAND LANDFILL | RVFS |
| SITE | 2 | 1969-1970 LANDFILL | RVFS |
| SITE | 3 | WALKER BARN STORAGE AREA | RVFS |
| SITE | 4 | HOFFMAN ROAD LANDFILL | RVFS |
| SITE | 5 | CURRENT LANDFILL | RVFS |
| SITE | 6 | FUEL FARM 3 | RVFS |
| SITE | 7 | PESTICIDE RINSEATE DISPOSAL | RVFS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

WASHINGTON

| Site Name | | Description | Project |
|-----------|----|----------------------------------|---------|
| SITE | 8 | RUNWAY DITCHES | RVFS |
| SITE | 9 | OLD AULT FIELD COAL PILE | RVFS |
| SITE | 10 | AULT FIELD NOSE HANGARS | RVFS |
| SITE | 11 | FUEL TRUCK DEPOT | RVFS |
| SITE | 12 | AULT FIELD SEWAGE CLARIFIER | RVFS |
| SITE | 13 | BOILER PLANT OIL SPILL | RVFS |
| SITE | 14 | HANGAR 5 | RVFS |
| SITE | 16 | NW APRON AREA | RVFS |
| SITE | 17 | PCP DIP TANK | RVFS |
| SITE | 18 | BLDG 120 TRANSFORMER SERVICE AEA | RVFS |
| SITE | 19 | ABANDON AULT FIELD OIL TANKS | RVFS |
| SITE | 20 | 1966 FIRE SCHOOL | RVFS |
| SITE | 21 | CHAPEL FIRE SCHOOL | RVFS |
| SITE | 22 | CLOVER VALLEY ROAD FIRE SCHOOL | RVFS |
| SITE | 23 | RUNWAY FIRE SCHOOL | RVFS |
| SITE | 24 | BLDG 889 TRANSFORMER SERVICE | RVFS |
| SITE | 25 | RUNWAY DITCHES AFCCA | RVFS |
| SITE | 26 | FUEL FARM 2 | RVFS |
| SITE | 27 | FUEL FARM 1 | RVFS |
| SITE | 28 | ABANDONED SEAPLANE BASE OIL TANK | RVFS |
| SITE | 29 | SEAPLANE BASE, SEWAGE CLARIFIER | RVFS |
| SITE | 30 | AUTO SHOP | RVFS |
| SITE | 31 | SEAPLANE BASE COAL PILE | RVFS |
| SITE | 32 | BLDG 25&26 DISPOSAL AREA | RVFS |
| SITE | 33 | GAS TANK LEAK | RVFS |
| SITE | 34 | SEAPLANE BASE GAS STATION | RVFS |
| SITE | 35 | SEAPLANE NOSE HANGAR | RVFS |
| SITE | 36 | TCE TANK | RVFS |
| SITE | 37 | SALVAGE YARD | RVFS |
| SITE | 38 | SEAPLANE BASE LANDFILL | RVFS |

**** NSB BANGOR (NAVY)**

| | | | |
|------|----|------------------------------------|------|
| SITE | 1 | MANCHESTER PCB CONT | RVFS |
| SITE | 2 | DEMOL WASTE DISP SITE | RVFS |
| SITE | 3 | FORMER ORDNANCE BURNING | RVFS |
| SITE | 4 | OLD CISTERN FILLED W/ GREEN LIQUID | RVFS |
| SITE | 5 | BURIED PESTICIDES | RVFS |
| SITE | 6 | DUNNAGE CANYON | RVFS |
| SITE | 11 | MANCHESTER LEAD CONT | RVFS |
| SITE | 12 | METALLURGY FAC RUBBLE | RVFS |
| SITE | 17 | EGG TEST RANGE | RVFS |
| SITE | 18 | FLORAL PT | RVFS |
| SITE | 30 | OLD ACID PIT | RVFS |
| SITE | 32 | DEMIL OPS WW DIS | RVFS |
| SITE | 35 | FORMER WW DISCHAR | RVFS |
| SITE | 36 | GARBAGE AND ORDNANCE DISP AREA | RVFS |

**** NUWES KEYPORT (NAVY)**

| | | | |
|------|---|----------------------------------|------|
| SITE | 1 | LANDFILL | RVFS |
| SITE | 2 | NORTH END LANDFILL INDIAN ISLAND | RVFS |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

WASHINGTON

| Site Name | Description | Project |
|-----------|-----------------------------|---------|
| SITE 9 | BURIED IMHOFF TANKS | RI/FS |
| SITE 10 | VAN METER REDISPOSAL | RI/FS |
| SITE 17 | NUWES LIBERTY BAY SHORELINE | RI/FS |
| SITE 21 | BLDG 86 FILL INDIAN ISLAND | RI/FS |

**** FAIRCHILD AFB (AIR FORCE)**

| | | |
|---------|------|----|
| SITE 1 | PS-3 | RI |
| SITE 2 | PS-4 | RI |
| SITE 3 | PS-2 | RI |
| SITE 4 | OB-1 | RI |
| SITE 5 | OS-7 | RI |
| SITE 6 | PS-1 | RI |
| SITE 7 | IS-4 | RI |
| SITE 8 | FT-1 | RI |
| SITE 9 | IS-1 | RI |
| SITE 10 | SW-1 | RI |
| SITE 11 | SW-8 | RI |
| SITE 12 | WW-1 | RI |
| SITE 13 | IS-3 | RI |

**** MCCORD (AIR FORCE)**

| | | |
|---------|------------------------------------|-------|
| SITE 1 | D5 LANDFILL/BURNING TRENCH | RI/FS |
| SITE 2 | D7 BASE LANDFILL | RI/FS |
| SITE 3 | D39 BASE LANDFILL/BURNING TRENCH | RI/FS |
| SITE 4 | SITE 4 LANDFILL | RI |
| SITE 5 | D6 BASE LANDFILL | FS |
| SITE 6 | C54 LEACH PIT | RA |
| SITE 7 | JP-4 SPILL SITES 34 AREA A | RA |
| SITE 8 | SITE A2 BASE LANDFILL | RA |
| SITE 9 | JP-4 SPILL SITES 46 AREA A | RA |
| SITE 10 | SITE C37 POL SPILL/DISPOSAL | RA |
| SITE 11 | C42 FUEL SPILL | RA |
| SITE 12 | LEACH PIT C 57 | RA |
| SITE 13 | PROVIDE BOTTLED WATER TO ALG | RA |
| SITE 14 | APPROPRIATE DISPOSAL REIMBURSEMENT | RA |
| SITE 16 | BURIAL PIT | RA |

WISCONSIN

| Site Name | Description | Project |
|---|--------------------|---------|
| ** GEN. BILLY MITCHELL FIELD (AIR FORCE) | | |
| SITE 1 | FIRE TRAINING AREA | RI |
| SITE 2 | MW STORAGE AREA | RI |
| SITE 3 | POL AREA 71 | RI |
| SITE 4 | STORAGE AREA 2 | RI |

**** VOLF FIELD ANG (AIR FORCE)**

| | | |
|--------|------------|-------|
| SITE 7 | LANDFILL C | RI/FS |
|--------|------------|-------|

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
(FY 86)**

WISCONSIN

| Site Name | Description | Project |
|--------------------------------------|---------------------------------|---------|
| ** VOLK FIELD ANG (AIR FORCE) | | |
| SITE 5 | KC-97 CRASH SITE | RI/FS |
| ** VOLK FIELD ANG (AIR FORCE) | | |
| SITE 1 | CHRONIC FUEL SPILL SITE | RI/FS |
| SITE 2 | JP-4 SPILL SITE | RI/FS |
| SITE 3 | FIRE TRAINING AREA | RI/FS |
| SITE 4 | TRANSFORMER FLUID DISPOSAL SITE | RI/FS |
| SITE 6 | MUNITIONS BURIAL SITE | RI/FS |
| SITE 8 | FUEL SPILL | RI/FS |
| SITE 9 | LANDFILL A | RI/FS |

WEST VIRGINIA

| Site Name | Description | Project |
|---|-------------------------|---------|
| ** WEST VIRGINIA ORDNANCE WORKS (ARMY) | | |
| SITE 2 | TNT AREA | RI/FS |
| SITE 3 | BURNING GROUNDS | RI/FS |
| SITE 4 | PROCESS SEWER LINES | RI/FS |
| SITE 5 | YELLOW WATER/ACID AREA | RI/FS |
| SITE 6 | RED WATER RESVRS AREA | RI/FS |
| SITE 7 | POND B AREA | RI/FS |
| ** SHEPHERD FIELD (AIR FORCE) | | |
| SITE 1 | DRAINAGE AREA | RI/FS |
| SITE 2 | SHIPPING/RECEIVING AREA | RI/FS |
| SITE 3 | FIRE TRAINING AREA | RI/FS |

WYOMING

| Site Name | Description | Project |
|---------------------------------------|--------------------------------|---------|
| ** F.E. WARREN AFB (AIR FORCE) | | |
| SITE 1 | BLDG 400 MOGAS SPILL | RI |
| SITE 2 | ACID CRY WELL WEST OF BLDG 826 | RI/RA |
| SITE 3 | BLDG 810 SPILL | RI |
| SITE 4 | BLDG 330 SPILL | RI |
| SITE 5 | BLDG 1250 SPILL | RI |
| SITE 6 | BLDG 336 SPILL | RI |
| SITE 7 | LANDFILL 2 | RI |
| SITE 8 | LANDFILL 3 | RI |
| SITE 9 | LANDFILL 4 | RI |
| SITE 10 | LANDFILL 5 | RI |
| SITE 11 | LANDFILL 6 | RI |
| SITE 12 | BLDG 316 SPILL | RI |
| SITE 13 | FPTA 1 | RI |
| SITE 14 | FPTA 2 | RI |

APPENDIX C

DEFINITIONS

- PA/SI - Preliminary Assessment/Site Inspection. The PA includes collection and review of available information (installation records, employee interviews, technical data and reports, etc.). The SI comprises a physical inspection of the identified sites, and in some cases, limited sampling information. This step was formerly called Phase I, Installation Assessment, under the DoD IRP.
- RI/FS - Remedial Investigation/Feasibility Study. These steps may be conducted concurrently. The RI consists of sampling and field studies whose goals are to determine the nature and extent of contamination at a site and the direction and rate of migration, if applicable. The FS is used to develop and analyze various response alternatives and recommend appropriate remedial actions. The RI part of this step was formerly called Phase II - Confirmation Studies under the DoD IRP. These Phase II studies also included the FS step, except by the Air Force who included the FS in their Phase IV work.
- RD/RA - Remedial, Design/Remedial Action. This includes the engineering design, construction and operation of the cleanup alternative selected on the basis of providing the most protection to human health and the environment as well as permanence, reliability and cost. It may include groundwater cleanup, containment or other structures to prevent migration of contaminants, decontamination/treatment processes to remove or detoxify contaminants, and long-term monitoring systems. This step was formerly called Phase IV, Remedial Action, under the DoD IRP.
- LTM - Long Term Monitoring

TAB C

Installation Restoration Program Defense Priorities
List for Fiscal Year 1987

INSTALLATION RESTORATION PROGRAM

DEFENSE PRIORITIES LIST

FOR
FISCAL YEAR 1987



OFFICE OF THE DEPUTY ASSISTANT SECRETARY OF DEFENSE
(ENVIRONMENT)

WASHINGTON, D.C. 20301-8000

JANUARY 1987

The Department of Defense (DoD), like private industry, engages in many industrial and manufacturing operations and, in the course of doing so uses large amounts of industrial chemicals to accomplish its mission. Although, in the past wastes from these operations were disposed of by accepted practices, we have found that past practices may have resulted in inadvertent environmental contamination and risks to people and the environment. To deal with these problems, the department has a comprehensive program to identify, investigate, and clean-up contamination from toxic and hazardous substances and wastes, on current and formerly used DoD installations.

The Installation Restoration Program (IRP) is centrally managed at the Office of the Secretary of Defense and is carried out by military services and defense agencies. Like the Environmental Protection Agency (EPA) Superfund program, the DoD's IRP is consistent with the National Contingency Plan (NCP). The cleanup of sites proceeds in the following steps: Preliminary Assessment/Site Inspection (PA/SI), Remedial Investigation/Feasibility Study (RI/FS), and Remedial Action (RA including remedial designs, RD). Appendix A provides additional information on these steps. Removal actions for imminent threats are, of course, carried out immediately upon discovery.

Central to the IRP's effectiveness is DoD's ability to set priorities, select remedies and establish schedules at sites, taking into full consideration the level of contaminations and the impact on surrounding communities. Since each site presents a different risk to people and environment, and cleanup is costly, the Department has established a priority system to assure its sites are addressed on a "worst first" basis. This enables us to use scarce funds in the most beneficial way.

We are developing a comprehensive priority ranking system in concert with the EPA, other federal agencies, States, and the public. Pending completion of the comprehensive system, the Deputy Assistant Secretary of Defense (Environment) (DASD(E)) has developed the following interim criteria for use by the military services in the current fiscal year:

- Priority A - Sites that have been recommended for or included in the EPA National Priorities List and other sites which pose an imminent and substantial danger to people or the environment.
- Priority B - Requirements at sites not posing as high a potential risk and therefore not classified as Priority A.
- Priority C - All requirements that are not classified as Priority A or B including all non-site related requirements.

The services have applied these criteria and categories of cleanup action to their sites and have submitted their requirements. The table below summarizes the FY 87 effort within these priorities. Appendix B provides a detailed listing of sites arranged by priority and service; Appendix C provides the same information sorted by State. The DASD(E) has allocated \$327 million to the services to carry out the IRP at these locations.

Summary of Hazardous Waste Sites
FY 87 IRP
Defense Priorities List

| Service/Agency | Priorities | | | Total |
|--------------------------|------------|------------|------------|-------------|
| | A | B | C | |
| ARMY | 96 | 33 | 146 | 275 |
| NAVY | 126 | 438 | 165 | 729 |
| AIR FORCE | 138 | 465 | 313 | 916 |
| DEFENSE LOGISTICS AGENCY | 12 | 0 | 1 | 13 |
| TOTAL SITES | 372 | 936 | 625 | 1933 |

For information regarding activity at a specific site please contact the military service or installation indicated. For additional copies of information regarding the DPL, please contact the Office of the Deputy Assistant Secretary of Defense (Environment), The Pentagon, Room 3D833, Washington, D.C. 20301-8000.

APPENDIX A

DoD PRIORITIZATION

FY 87 Interim Criteria

- Priority A - Sites that have been recommended for or included in the Environmental Protection Agency (EPA) National Priorities List (NPL) and other sites which pose an imminent and substantial danger to people or the environment. (Note: The EPA NPL, unlike the DPL, is a list that is based on a rigid Hazard Rating System with a lower cutoff score. The result is a limited listing of sites presenting a relatively high hazard potential. In contrast, the DPL, in this report, lists all sites projected to need additional investigation or cleanup, including those which present a lesser hazard.)
- Priority B - Requirements at sites not posing as high a potential risk and therefore not classified as Priority A.
- Priority C - All requirements not classified as Priority A or B, including all non-site related requirements.

DEFINITIONS

- PA/SI - Preliminary Assessment/Site Inspection. The PA includes collection and review of available information (installation records, employee interviews, technical data and reports, etc.). The SI comprises a physical inspection of the identified sites, and in some cases, limited sampling information. This step was formerly called Phase I, Installation Assessment, under the DoD IRP.
- RI/FS - Remedial Investigation/Feasibility Study. These steps may be conducted concurrently. The RI consists of sampling and field studies whose goals are to determine the nature and extent of contamination at a site and the direction and rate of migration, if applicable. The FS is used to develop and analyze various response alternatives and recommend appropriate remedial actions. The RI part of this step was formerly called Phase II - Confirmation Studies under the DoD IRP. These Phase II studies also included the FS step, except by the Air Force who included the FS in their Phase IV work.
- RD/RA - Remedial Design/Remedial Action. This includes the engineering design, construction and operation of the cleanup alternative selected on the basis of providing the most protection to human health and the environment as well as permanence, reliability and cost. It may include groundwater cleanup, containment or other structures to prevent migration of contaminants, decontamination/treatment processes to remove or detoxify contaminants, and long-term monitoring systems. This step was formerly called Phase IV, Remedial Action, under the DoD IRP.

APPENDIX B

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY A *

| Site Name | Description | Project |
|---|-----------------------------|---------|
| ** ABERDEEN PRVG GRND, ABERDEEN, MD (ARMY) | | |
| SITE 1 | J-FIELD | RI/FS |
| SITE 2 | CARROL ISLAND | RI/FS |
| SITE 3 | GRACES QRTS | RI/FS |
| SITE 4 | O-FIELD | RI/FS |
| SITE 5 | CANAL CREEK | RI/FS |
| SITE 6 | NIKE SITE | RI/FS |
| SITE 7 | WHITE PHOSPHORUS DISPOSAL | RI/FS |
| SITE 8 | STUDY | RI/FS |
| ** ALABAMA AAP, AL (ARMY) | | |
| SITE 001 | MAGAZINE AREA | RA |
| SITE 002 | OLD BURNING GROUNDS | RA |
| SITE 003 | SMALL ARMS BALLASTICS RANGE | RA |
| SITE 004 | OLD WELL | RA |
| SITE 005 | PROPELLANT SHIPPING HOUSES | RI/FS |
| SITE 006 | RUBBLE PILE | RA |
| ** ANNISTON AD, AL (ARMY) | | |
| SITE 1 | BLDG 114 | RA |
| SITE 2 | Z-1 | RA |
| SITE 3 | BLDG 130 | RA |
| SITE 4 | LANDFILL (SOUTH) | RA |
| SITE 5 | OTHER (OPTION OF GWTS) | RA |
| ** CORNHUSKER AAP, NE (ARMY) | | |
| SITE 2 | EARTHEN IMPOUNDMENTS (S6) | RA |
| ** FORT DEN, NJ (ARMY) | | |
| SITE 3 | TCE DUMPSITE | RI/FS |
| SITE 4 | NPL LANDFILL | RI/FS |
| SITE 5 | DIO MAINTENANCE | RI/FS |
| SITE 6 | DIO TRANS DIV MOTOR POOL | RI/FS |
| SITE 7 | OPT AVIATION DIV | RI/FS |
| SITE 8 | DEH MOTOR POOL | RI/FS |
| SITE 9 | AAFES PX SERVICE STATION | RI/FS |
| SITE 10 | 5TH BDE MOTOR POOL | RI/FS |
| SITE 11 | 5TH BDE MAINTENANCE | RI/FS |
| SITE 12 | 2:5 BN MOTOR POOL | RI/FS |
| SITE 13 | 3:5 BN MOTOR POOL | RI/FS |
| SITE 14 | 78TH DIV RESERVES ECS 26 | RI/FS |
| SITE 15 | OPCA AUTO CRAFT SHOP | RI/FS |
| SITE 16 | 511/759TH M.P. MOTOR POOL | RI/FS |
| SITE 17 | 556TH MED AMB MOTOR POOL | RI/FS |
| SITE 18 | 39TH ENGR MOTOR POOL | RI/FS |
| ** FORT LEWIS, WA (ARMY) | | |
| SITE 2 | FIRE PIT/EOO RANGE | RI/FS |
| SITE 3 | LANDFILL 5 | RI/FS |
| ** JOLIET AAP, IL (ARMY) | | |
| SITE 1 | MANUFACTURING AREA | RI/FS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY A *

| Site Name | Description | Project |
|---|-----------------------------------|---------|
| ** LAKE CITY AAP, MO (ARMY) | | |
| SITE 1 | LANDFILL AND OTHERS | RI/FS |
| ** LETTERKENNY ARMY DEPOT, PA (ARMY) | | |
| SITE 1 | OPDO AREA | RA |
| SITE 3 | LAGOON | RA |
| ** LONE STAR AAP, TX (ARMY) | | |
| SITE 5 | MIGRATION MANAGEMENT | RI/FS |
| SITE 6 | OLD DEMOLITION GROUNDS | RI/FS |
| SITE 7 | OLD WELLS AND CISTERNS | RI/FS |
| ** LOUISIANA AAP, LA (ARMY) | | |
| SITE 1 | AREA P | RI/FS |
| SITE 2 | BGS | RI/FS |
| SITE 4 | LANDFILL 8 | RI/FS |
| SITE 5 | LANDFILL 3 | RI/FS |
| ** MILAN AAP, TN (ARMY) | | |
| SITE 2 | OPEN BURNING/OPEN DETONATION AREA | RI/FS |
| ** ROCKY MOUNTAIN ARSENAL, CO (ARMY) | | |
| | BASIN F | RI/FS |
| | BASIN F REMOVAL ACTION | RI/FS |
| | PILOT DEMO TO DECON SOIL | RI/FS |
| | RI/FS ON ALL SITES | RI/FS |
| ** SACRAMENTO AD, CA (ARMY) | | |
| SITE 1 | OXIDATION LAGOON | RI/RA |
| SITE 2 | BURN PIT | RA |
| ** SAVANNA ADA, IL (ARMY) | | |
| SITE 1 | WASHOUT LAGOON IMPOUNDMENT | RA |
| SITE 2 | WASHOUT LAGOON IMPOUNDMENT | RA |
| SITE 3 | WASHOUT LAGOON IMPOUNDMENT | RA |
| SITE 4 | WASHOUT LAGOON IMPOUNDMENT | RA |
| SITE 5 | WASHOUT LAGOON IMPOUNDMENT | RA |
| SITE 6 | WASHOUT LAGOON IMPOUNDMENT | RA |
| ** SHARPE ARMY DEPOT, CA (ARMY) | | |
| SITE 1 | SOUTH BALLOON AREA | RI/RA |
| SITE 2 | NORTH BALLOON AREA | RI/FS |
| ** TOOELE AD, UT (ARMY) | | |
| SITE 2 | INDUSTRIAL WASTE POND | RI/FS |
| SITE 5 | PITS (UNKNOWN NUMBER) | RI/FS |
| SITE 6 | MUSTARD HOLDING AREA | RI/FS |
| SITE 7 | EXPLOSION CRATERS | RI/FS |
| SITE 8 | WINDOWS | RI/FS |
| SITE 9 | CANDS | RI/FS |
| SITE 10 | GRAVEL PIT | RI/FS |
| SITE 11 | DRAINAGE PONDS | RI/FS |
| SITE 12 | SPOIL AREA | RI/FS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY A *

| Site Name | | Description | Project |
|---|----|------------------------------------|---------|
| ** TWIN CITIES AAP, MN (ARMY) | | | |
| SITE | 1 | SLUDGE AND SUMP ANALYSIS | RI/RA |
| SITE | 2 | A-L | RI/RA |
| SITE | 3 | 129-3 | RI/RA |
| SITE | 4 | 129-5 | RI/RA |
| SITE | 5 | 129-17 | RI/RA |
| SITE | 6 | A | RI/RA |
| SITE | 7 | B | RI/RA |
| SITE | 8 | C | RI/RA |
| SITE | 9 | D | RI/RA |
| SITE | 10 | E | RI/RA |
| SITE | 11 | F | RI/RA |
| SITE | 12 | G | RI/RA |
| SITE | 13 | H | RI/RA |
| SITE | 14 | I | RI/RA |
| SITE | 15 | J | RI/RA |
| ** UMATILLA ADA, OR (ARMY) | | | |
| SITE | 1 | WASHOUT LAGOON | RI/FS |
| ** WELDON SPRING TRAINING AREA, MO (ARMY) | | | |
| SITE | 1 | DQE/DA MOU | RI/FS |
| ** WEST VIRGINIA ORDNANCE WORKS, WV (ARMY) | | | |
| SITE | 2 | TNT AREA | RA |
| SITE | 3 | BURNING GROUNDS | RA |
| SITE | 4 | PROCESS SEWER LINES | RI/FS |
| SITE | 5 | YELLOW WATER/ACID AREA | RA |
| SITE | 6 | RED WATER RESVRS AREA | RA |
| SITE | 7 | POND B AREA | RA |
| | | | |
| | | | |
| | | | |
| ** NADC WARMUNSTER, PA (NAVY) | | | |
| SITE | 1 | FORMER BURN PIT | RI/FS |
| SITE | 2 | SLUDGE DISPOSAL AREA | RI/FS |
| SITE | 3 | WASTE DISPOSAL AREA | RI/FS |
| SITE | 4 | MAIN LANDFILL | RI/FS |
| SITE | 5 | BLDG 410 WASTE ENTRENCHMENT | RI/FS |
| SITE | 6 | WASTE PILES | RI/FS |
| SITE | 7 | WASTE ENTRENCHMENT | RI/FS |
| SITE | 8 | FIRE FIGHTING TRAINING AREA | RI/FS |
| ** NAEC LAKEHURST, NJ (NAVY) | | | |
| SITE | . | BOMARK SITE | RI/FS |
| SITE | 1 | BLUMP CRASH SITE | RI/FS |
| SITE | 2 | RSTS TRACK 2 | RI/FS |
| SITE | 3 | DRAINAGE DITCH | RI/FS |
| SITE | 4 | DEADLOAD MAINTENANCE SHOP | RI/FS |
| SITE | 5 | ARRESTING ENGINE TRACK 2, BLDG 371 | RI/FS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY A *

| Site Name | | Description | Project |
|-----------|----|---------------------------------------|---------|
| SITE | 6 | CATAPULT TEST FAC. | RI/FS |
| SITE | 7 | CATAPULT TEST STOR AREA | RI/FS |
| SITE | 8 | ARRESTING ENGINE TRACK, BLDG 529 | RI/FS |
| SITE | 9 | HANGAR 2 DISPOSAL AREA | RI/FS |
| SITE | 10 | FUEL TRUCK STOR AREA | RI/FS |
| SITE | 11 | HANGAR 5 DISPOSAL AREA | RI/FS |
| SITE | 12 | FUEL STOR FAC 141 | RI/FS |
| SITE | 13 | FUEL FARM NO. 125 | RI/FS |
| SITE | 14 | OLD FIRE FIGHTING SCHOOL | RI/FS |
| SITE | 15 | BLDG 562 | RI/FS |
| SITE | 16 | NATTC FIRE FIGHTING TRAINING AREA | RI/FS |
| SITE | 17 | FUEL FARM NO 196 | RI/FS |
| SITE | 18 | EXCHANGE GAS STATION | RI/FS |
| SITE | 19 | SATS CATAPULT (7401 TEST SITE) | RI/FS |
| SITE | 20 | TETRAETHYL LEAD DISPOSAL SITE | RI/FS |
| SITE | 21 | JET-CAR MAINTENANCE SHOP | RI/FS |
| SITE | 22 | JET BLAST DEFLECTOR | RI/FS |
| SITE | 23 | DISPOSAL AREA | RI/FS |
| SITE | 24 | CATAPULT TEST SITE 7419 | RI/FS |
| SITE | 25 | TEST DEPT DISPOSAL AREA | RI/FS |
| SITE | 26 | CONTRACTOR DISPOSAL AREA | RI/FS |
| SITE | 27 | RSTS SCRAP SITE | RI/FS |
| SITE | 28 | WEST FIELD HANGAR AREA | RI/FS |
| SITE | 29 | ORIGINAL BASE LANDFILL | RI/FS |
| SITE | 30 | RSTS TRACK 4 RECOVERY END | RI/FS |
| SITE | 31 | SANITARY LANDFILL | RI/FS |
| SITE | 32 | RSTS LAUNCHING END | RI/FS |
| SITE | 33 | REFUELER REPAIR SHOP DRYWELL | RI/FS |
| SITE | 34 | PARACHUTE JUMP CIRCLE | RI/FS |
| SITE | 35 | HELICOPTER REFUELING AREA | RI/FS |
| SITE | 36 | HANGAR 1 DISPOSAL AREA | RI/FS |
| SITE | 37 | FUEL DISPOSAL AREA | RI/FS |
| SITE | 38 | OIL SKIMMING AND SLUDGE DISPOSAL AREA | RI/FS |
| SITE | 39 | POL DISPOSAL AT HANGAR 3 | RI/FS |
| SITE | 40 | SOIL STABILIZATION FIELD TEST | RI/FS |
| SITE | 42 | BASE LANDFILL | RI/FS |
| SITE | 44 | PCB STOR AND TESTING AREA | RI/FS |

** NAS BRUNSWICK, ME (NAVY)

| | | | |
|------|---|------------------------------|-------|
| SITE | 1 | LANDFILL ORION ST(NORTH) | RI/FS |
| SITE | 2 | LANDFILL ORION ST (SOUTH) | RI/FS |
| SITE | 3 | NW BURIAL AREA | RI/FS |
| SITE | 4 | ACID/CAUSTIC PIT | RI/FS |
| SITE | 7 | OIL ACID/CAUSTIC PIT | RI/FS |
| SITE | 8 | PERIMETER ROAD DISPOSAL SITE | RI/FS |
| SITE | 9 | NEPTUNE DR. DISPOSAL SITE | RI/FS |

** NAS MOFFETT FIELD, CA (NAVY)

| | | | |
|------|---|------------------------|-------|
| SITE | 1 | RUNWAY LANDFILL | RI/FS |
| SITE | 3 | MARRIAGE ROAD DITCH | RI/FS |
| SITE | 4 | IW HOLDING PONDS | RI/FS |
| SITE | 5 | FUEL FARM FRENCH DRAIN | RI/FS |
| SITE | 6 | RUNWAY APRON | RI/FS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY A *

| Site Names | | Description | Projects |
|------------|----|-------------------------|----------|
| SITE | 7 | HANGARS 2 AND 3 | RI/FS |
| SITE | 8 | WASTE OIL TRANSFER AREA | RI/FS |
| SITE | 9 | OLD FUEL FARM | RI/FS |
| SITE | 10 | CHASE PARK AREA | RI/FS |

**** NAS WHIDBEY ISLAND, WA (NAVY)**

| | | | |
|------|----|----------------------------------|-------|
| SITE | - | RUNWAY DITCHES AFCCA | RI/FS |
| SITE | - | SEAPLANE BASE LANDFILL | RI/FS |
| SITE | 2 | WESERN HIGHLAND LANDFILL | RI/FS |
| SITE | 3 | 1969-1970 LANDFILL | RI/FS |
| SITE | 6 | CURRENT LANDFILL | RI/FS |
| SITE | 13 | FUEL FARM 3 | RI/FS |
| SITE | 14 | PESTICIDE RINSEATE DISPOSAL | RI/FS |
| SITE | 16 | RUNWAY DITCHES | RI/FS |
| SITE | 17 | OLD AULT FIELD COAL PILE | RI/FS |
| SITE | 18 | AULT FIELD NOSE HANGARS | RI/FS |
| SITE | 19 | FUEL TRUCK DEPOT | RI/FS |
| SITE | 20 | AULT FIELD SEWAGE CLARIFIER | RI/FS |
| SITE | 21 | BOILER PLANT OIL SPILL | RI/FS |
| SITE | 22 | HANGAR 5 | RI/FS |
| SITE | 23 | NW APRON AREA | RI/FS |
| SITE | 24 | BUILDING 283 PCP DIP TANK | RI/FS |
| SITE | 25 | BLDG 120 TRANSFORMER SERVICE AEA | RI/FS |
| SITE | 26 | ABANDON AULT FIELD OIL TANKS | RI/FS |
| SITE | 27 | 1966 FIRE SCHOOL | RI/FS |
| SITE | 28 | CHAPEL FIRE SCHOOL | RI/FS |
| SITE | 29 | CLOVER VALLEY ROAD FIRE SCHOOL | RI/FS |
| SITE | 31 | RUNWAY FIRE SCHOOL | RI/FS |
| SITE | 32 | BLDG 889 TRANSFORMER SERVICE | RI/FS |
| SITE | 35 | FUEL FARM 2 | RI/FS |
| SITE | 36 | FUEL FARM 1 | RI/FS |
| SITE | 37 | ABANDONED SEAPLANE BASE OIL TANK | RI/FS |
| SITE | 38 | SEAPLANE BASE, SEWAGE CLARIFIER | RI/FS |
| SITE | 39 | AUTO SHOP | RI/FS |
| SITE | 40 | SEAPLANE BASE COAL PILE | RI/FS |
| SITE | 41 | BLDG 25&26 DISPOSAL AREA | RI/FS |
| SITE | 42 | CAS TANK LEAK | RI/FS |
| SITE | 43 | SEAPLANE BASE GAS STATION | RI/FS |
| SITE | 44 | SEAPLANE NOSE HANGAR | RI/FS |
| SITE | 45 | TCE TANK | RI/FS |
| SITE | 48 | SALVAGE YARD | RI/FS |

**** NSB BANGOR, WA (NAVY)**

| | | | |
|------|----|------------------------------------|-------|
| SITE | 6 | OLD CISTERN FILLED W/ GREEN LIQUID | RI/FS |
| SITE | A | EOD TEST RANGE | RI/FS |
| SITE | B | FLORAL PT. | RI/FS |
| SITE | D | FORMER ORDNANCE BURNING | RI/FS |
| SITE | E | OLD ACID PIT | RI/FS |
| SITE | F | DEMIL WASTE DISP SITE | RI/FS |
| SITE | F | DEMIL OPS. WW DISP SITE | RI/FS |
| SITE | 11 | BURIED PESTICIDES | RI/FS |
| SITE | 12 | DUNNAGE CANYON | RI/FS |
| SITE | 24 | LIQUID WASTE INCIN. | RI/FS |
| SITE | 25 | DINITROBENZENE AREA | RI/FS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY A *

| Site Name | Description | Project |
|---|---------------------------------------|---------|
| SITE 101 | FORMER WW DISCHAR. | RI/FS |
| SITE 103 | GARBAGE AND ORDNANCE DISP. AREA | RI/FS |
| ** NUWES KEYPORT, WA (NAVY) | | |
| SITE - | BURIED IMHOFF TANKS | RI/FS |
| SITE 1 | LANDFILL | RI/FS |
| SITE 2 | VAN METER REDISPOSAL | RI/FS |
| SITE 9 | LIBERTY BAY-SHORELINE | RI/FS |
| SITE 10 | NORTH END LANDFILL-INDIAN ISLAND | RI/FS |
| SITE 21 | BLDG 86 FILL-INDIAN ISLAND | RI/FS |
| ** NWS EARLE COLTS NECK, NJ (NAVY) | | |
| SITE - | UNNAMED TRIBUTORS | RI/FS |
| SITE 2 | ORDNANCE DEMILITARIZATION SITE | RI/FS |
| SITE 3 | LANDFILL SW OF "F" | RI/FS |
| SITE 4 | LANDFILL WEST OF "D" | RI/FS |
| SITE 5 | LANDFILL WEST OF ARMY BRIGADE | RI/FS |
| | | |
| | | |
| | | |
| ** AFP NO.42, PALMDALE, CA (AF) | | |
| SITE 2-1 | PAINT WASTE DISP. DITCH | RI/FS |
| SITE 2-9 | FUEL CONTAMINATED DITCH | RI/FS |
| ** AFP PJXS WATERTON, CO (AF) | | |
| SITE 01 | T-8A CONTAMINATION POND | RI/FS |
| SITE 03 | EPL BLDG T-8 AND T-20A | RI/FS |
| SITE 04 | HYDRAZINE SPILL. TANK T-31 | RI/FS |
| SITE 05 | O-1 LANDFILL | RI/FS |
| SITE 06 | DIESEL TANK T-23 | RI/FS |
| SITE 07 | TEST FAC. STORAGE | RI/FS |
| SITE 08 | NO. 6 DIESEL FUEL BELOW O 1 | RI/FS |
| SITE 09 | DRAINAGE FLUMES | RI/FS |
| SITE OT 01 | EPL TEST CELLS, VALVE SHOP STOR. AREA | RI/FS |
| ** ANDREWS AFB, MD (AF) | | |
| SITE OS 01 | OP-1, BRANDYWINE OPPO STORAGE YARD | RI/RA |
| ** ARNOLD AFS, TN (AF) | | |
| SITE 01 | LANDFILL 2, LEACHATE PIT 2 | FS/RO |
| ** BEALE AFB, CA (AF) | | |
| SITE 01 | DISCHARGE AREA 1 | RI |
| ** CASTLE AFB, CA (AF) | | |
| SITE LF 01 | LANDFILL 1 | RA |
| SITE TCE 5 | TCE SITE 5 | RO |
| SITE TCE 7 | TCE SITE 7 | RO |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY A *

| Site Name | | Description | Project |
|------------------------------------|-------|--------------------------------|---------|
| ** DOVER AFB, DE (AF) | | | |
| SITE | D-4 | LIQUID WASTE DISPOSAL | RI/FS |
| SITE | D-5 | SANITARY LANDFILL | RI |
| SITE | S-1 | HAZARDOUS WASTE STORAGE AREA | RI |
| SITE | T-1 | INDUSTRIAL WASTE LAGOON | RI/FS |
| SITE | XYZ | MAIN FUEL PUMPING MANHOLES | RI |
| SITE | D 02 | CONSTRUCTION RUBBLE | RI |
| SITE | D-04 | LIQUID WASTE DISPOSAL | RO |
| SITE | D-10 | SANITARY LANDFILL | RI |
| SITE | DD-1 | NORTH DRAINAGE DITCH | RI/FS |
| SITE | FT-1 | FPTA 1 | RI |
| SITE | FT-2 | FIRE TRAINING AREA | RI |
| SITE | FT-3 | FPTA 3 | RI |
| SITE | SP-4 | JP-4 PIPELINE LEAK | RI |
| SITE | T-01 | RAP PROCESS, IND. WASTE LAGOON | RO |
| SITE | DD-01 | RAP PROCESS, N. DRAINAGE DITCH | RO |
| SITE | SP-09 | RAP PROCESS | RO |
| ** F.E. WARREN AFB, WY (AF) | | | |
| SITE | 04 | BLDG 1250 SPILL | RI |
| ** GRIFFISS AFB, NY (AF) | | | |
| SITE | OT 04 | DRYWELL BLDG 3 | RA |
| ** HANSCOM AFB, MA (AF) | | | |
| SITE | FT 02 | FIRE TRAINING 4 | RA/RO |
| SITE | LF 02 | SANITARY LANDFILL | RA/RO |
| SITE | WP 01 | JET FUEL TANK SLUDGE | RA/AD |
| SITE | WP 02 | PAINT WASTE DISPOSAL | RA/RO |
| ** HILL AFB, UT (AF) | | | |
| SITE | 07 | ECO BURN SITE | RI |
| SITE | 08 | SPOIL PIT | RI |
| SITE | 09 | PERIMETER ROAD | RI |
| SITE | 10 | SWAMP LEACH FIELD | RI |
| SITE | 11 | POND 3 | RI |
| SITE | 19 | US ARMY TOOELE RAIL SHOP | RI |
| SITE | FT 01 | FPTA 1 | RI |
| SITE | LF 01 | LANDFILL 1 | RI/FS |
| SITE | LF 02 | LANDFILL 2 | RI/FS |
| SITE | LF 03 | LANDFILL 3 | RI/FS |
| SITE | LF 04 | LANDFILL 4 | RI/FS |
| SITE | LF 05 | LANDFILL 5-UTTR. SITE 6 | RI |
| SITE | LU 01 | 822 UNDER GROUND TANKS | RI |
| SITE | OT 01 | HERBICIDE ORANGE TEST PLOT | RI |
| SITE | OT 02 | IWTP DRYING BED | RI/FS |
| SITE | OT 03 | LITTLE MTN. DRYING BEDS | RI/FS |
| SITE | OW 01 | BAMBURGER POND | RI |
| SITE | SS 01 | JP-4 SPILL REFUELING AREA | RI |
| SITE | SS 02 | SODIUM HYDROXIDE SPILL | RI/FS |
| SITE | WP 01 | BERMAN POND | RI |
| SITE | WP 02 | CHEMICAL DISPOSAL PIT 3 | RI/FS |
| SITE | WP 03 | CHEMICAL DISPOSAL PIT 1 & 2 | RI/RA |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY A *

| Site Name | Description | Project |
|------------------------------------|---------------------------------|---------|
| ** KELLY AFB, TX (AF) | | |
| SITE D-2 | LANDFILL | RI/FS |
| SITE D-4 | LANDFILL | RI/FS |
| SITE D-6 | LANDFILL | RI |
| SITE E-1 | CHEMICAL EVAPORATION PIT | FS |
| SITE S-2 | DPDO STORAGE YARD | RI/FS |
| SITE S-3 | MAINTENANCE STORAGE AREA | RI |
| SITE S-4 | FUEL SPILL AREA | FS |
| SITE S-6 | FUEL SPILL AREA | RI |
| SITE S-7 | HERBICIDE STORAGE AREA | RI |
| SITE FC-1 | FCTA | RI |
| SITE FC-2 | FCTA | RI |
| SITE IS-1 | STILL SPILL AREA | RI |
| SITE RD-1 | RADIOACTIVE DISPOSAL AREA | RI |
| SITE RD-2 | RADIOACTIVE DISPOSAL AREA | RI |
| SITE SA-2 | SLUDGE SPREADING AREA | RI |
| SITE SA-3 | SLUDGE SPREADING AREA | RI |
| SITE SD-2 | SLUDGE DRYING BED | RI |
| SITE LU 01 | GREEN WORM AREA | RA/RC |
| SITE WP 01 | CS-1, WASTE SITE | RI |
| ** LORING AFB, ME (AF) | | |
| SITE 02 | ZONE 1 LANDFILL 2 | RI |
| ** MATHER AFB, CA (AF) | | |
| SITE PL-12 | ACW SITE NPL-12 | FS |
| ** MCCORD AFB, WA (AF) | | |
| SITE C 54 | C54 LEACH PIT | RA |
| ** MINN STPAUL IAP, MN (AF) | | |
| SITE 01 | SMALL ARMS RANGE LANDFILL | FS |
| ** OTIS AFB, MA (AF) | | |
| SITE 03 | 14 SITE STUDY | RI/FS |
| SITE SD-1 | SD-1, SD-2, SD-3 CLEAN-UP | RA |
| ** PEASE AFB, NH (AF) | | |
| SITE 08 | FPTA 2 | RI/NO |
| ** ROBINS AFB, GA (AF) | | |
| SITE 01 | FTA 4 | RI |
| SITE 02 | PCB SPILL | RI |
| SITE 03 | WATER WELLS | RI |
| SITE FT 01 | FTA 1 | RI |
| SITE FT 02 | FTA 2 | RI |
| SITE FT 03 | FTA 3 | RI/FS |
| SITE LF 01 | LANDFILL 1 | RI |
| SITE LF 02 | LANDFILL 2 | RI |
| SITE LF 03 | LANDFILL 3 | RI |
| SITE LF 04 | LANDFILL 4 | RI |
| SITE RW 01 | RADIOACTIVE WASTE DISPOSAL SITE | RI/FS |
| SITE WP 01 | HAZ WASTE DISPOSAL SITE | RI |
| SITE WP 02 | LABORATORY CHEM BURIAL | RI |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY A *

| Site Name | | Description | Project |
|---|-------|-------------------------------|---------|
| SITE | WP 03 | SLUDGE LAGOON | RI |
| ** TINKER AFB, OK (AF) | | | |
| SITE | 02 | POL TANK FARM/AUST | RI/RA |
| SITE | 02 | FDTA 2 | RI/FS |
| SITE | 03 | WELLS 18 AND 19 | RI |
| SITE | FT 01 | FDTA 1 | RI/FS |
| SITE | LF 01 | LANDFILL 1 | RI/FS |
| SITE | LF 02 | LANDFILL 2 | RI/FS |
| SITE | LF 03 | LANDFILL 3 | RI/FS |
| SITE | LF 04 | LANDFILL 4 | RI/FS |
| SITE | LF 05 | LANDFILL 5 | RI/FS |
| SITE | LF 06 | LANDFILL 6 | RI/RO |
| SITE | OT 01 | BLDG 3001 | RI/RO |
| SITE | OT 02 | CRUTCHO CREEK | RI/FS |
| SITE | OT 03 | EAST SOLDIER'S CREEK | RI |
| SITE | OT 04 | FACILITY 1123 | RI |
| SITE | OT 06 | RWDS 1022E | RI |
| SITE | OT 07 | RWDS 1030W | RI/FS |
| SITE | OT 08 | RWDS 201S | RI/FS |
| SITE | OT 09 | RWDS 62598 | RI |
| ** WRIGHT-PATTERSON AFB, OH (AF) | | | |
| SITE | 03 | AREAS A, B, AND C | RA/RO |
| SITE | FT 01 | FDTA 1 | RI |
| SITE | FT 02 | FDTA 2 | RI |
| SITE | FT 3 | FDTA 3 AND 4, SPILL #1 | RI |
| SITE | LF 01 | LANDFILL 1 | RI |
| SITE | LF 02 | LANDFILL 10 | RI |
| SITE | LF 03 | LANDFILL 11 | RI |
| SITE | LF 04 | LANDFILL 12 | RI |
| SITE | LF 05 | LANDFILL 13 | RI |
| SITE | LF 06 | LANDFILL 2 | RI |
| SITE | LF 07 | LANDFILL 5 TWIN LAKES | RI |
| SITE | LF 08 | LANDFILL 8 | RI |
| SITE | LF 09 | LANDFILL 9, SANDY HILL | RI |
| SITE | LF 10 | LANDFILL 3, 4, 6 AND 7 | RI |
| SITE | OT 01 | CCAL STORAGE PILE | RI |
| SITE | OT 02 | CENTRAL HEAT PLANT 1, BLDG 66 | RI |
| SITE | OT 03 | CENTRAL HEATING PLANT 2 | RI |
| SITE | SS 02 | SPILL 2 | RI |
| SITE | SS 03 | SPILL 3 | RI |
| | | | |
| | | | |
| | | | |
| | | | |
| ** DCSC COLUMBUS, OH (DEFENSE LOGISTICS AGENCY) | | | |
| SITE | 1 | TRANSFER STORAGE AREA | RI/FS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY A *

| Site Name | Description | Project |
|---|-------------------------|---------|
| ** DDOU OGDEN, UT (DEFENSE LOGISTICS AGENCY) | | |
| SITE 1 | FORMER LANDFILLS | RVFS |
| ** DDTG TRACY, CA (DEFENSE LOGISTICS AGENCY) | | |
| SITE 23 | FORMER LANDFILLS | RVFS |
| ** DFSP CHARLESTON, SC (DEFENSE LOGISTICS AGENCY) | | |
| SITE 1 | TANK FARM | RA |
| ** DFSP ESCANABA, OH (DEFENSE LOGISTICS AGENCY) | | |
| SITE 1 | TANK FARM | RI |
| ** DFSP NORWALK, CA (DEFENSE LOGISTICS AGENCY) | | |
| SITE 1 | TANK FARM | RA |
| ** DFSP OZOL, CA (DEFENSE LOGISTICS AGENCY) | | |
| SITE 1 | TANK FARM | RVFS |
| ** DFSP SAN PEDRO, CA (DEFENSE LOGISTICS AGENCY) | | |
| SITE 1 | TANK FARM | RVFS |
| SITE 2 | WHARF | RVFS |
| ** DGSC RICHMOND, VA (DEFENSE LOGISTICS AGENCY) | | |
| SITE 1 | FORMER AREA 50 LANDFILL | RVFS |
| SITE 4 | FIRE TRAINING PITS | RA |
| ** DRMO CHARLESTON, SC (DEFENSE LOGISTICS AGENCY) | | |
| SITE 1 | DRMO STORAGE YARD | FS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

| Site Name | Description | Project |
|--|-------------------------------|---------|
| ** FORT BLISS, SC (ARMY) | | |
| SITE 1 | FIRE FIGHTING TRAINING AREA | RA |
| ** FORT ORD, CA (ARMY) | | |
| SITE 1 | FIRE PRATICE AREA | RI/FS |
| SITE 2 | LANDFILL | RI/FS |
| ** IOWA AAP, IA (ARMY) | | |
| SITE 1 | PINK WATER LAGOON | RA |
| SITE 2 | FORMER LINE 1 IMPOUNDMENT | RA |
| SITE 3 | INERT LANDFILL | RI/FS |
| ** PICATINNY ARSENAL, NJ (ARMY) | | |
| SITE 3 | SHELL BURIAL AREA B3150 | RI/FS |
| SITE 4 | CHEMICAL BURIAL PIT | RI/FS |
| SITE 9 | ROCKET FUEL TEST G-2 AREA | RI/FS |
| SITE 10 | ROCKET FUEL TEST G-1 AREA | RI/FS |
| SITE 11 | ROCKET FUEL TEST AREA | RI/FS |
| SITE 12 | ROCKET FUEL TEST AREA | RI/FS |
| SITE 13 | SHELL BURIAL AREA B3100 | RI/FS |
| SITE 14 | MUNITIONS AND PROPELLANT AREA | RI/FS |
| SITE 15 | MUNITIONS TEST RANGE | RI/FS |
| SITE 16 | MUNITIONS WASTE PIT | RI/FS |
| SITE 17 | MUNITIONS TEST AREA | RI/FS |
| SITE 19 | MUNITIONS TEST DEBRIS | RI/FS |
| SITE 20 | TETRYL PITS | RI/FS |
| SITE 21 | TETRYL PITS | RI/FS |
| SITE 22 | PYROTECHNICAL DEMO AREA | RI/FS |
| SITE 23 | PYROTECHNIC TEST RANGE | RI/FS |
| SITE 25 | SANITARY LANDFILL | RI/FS |
| SITE 26 | SANITARY LANDFILL | RI/FS |
| SITE 27 | DEGE PILE | RI/FS |
| SITE 28 | MUNITIONS TEST AREA | RI/FS |
| SITE 29 | POST FARM LANDFILL | RI/FS |
| ** REDSTONE ARSENAL, AL (ARMY) | | |
| SITE 2 | OB/OO AREA | RI/FS |
| SITE 3 | LANDFILL | RI/FS |
| SITE 4 | OTHER | RI/FS |
| ** RIVERBANK AAP, CA (ARMY) | | |
| SITE 1 | IWYP | RI/FS |
| SITE 2 | ABANDON LANDFILL | RA |
| ** WELDON SPRINGS CHEMICAL PLANT, WV (ARMY) | | |
| SITE 1 | WSCP DOE/DA MOU | RI/FS |
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02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

| Site Name | Description | Project |
|---------------------------------------|------------------------------------|---------|
| ** CBC GULFPORT, MS (NAVY) | | |
| SITE | RUBBLE DISPOSAL AREA | RI/FS |
| SITE | MCALLISTER PT LANDFILL | RI/FS |
| SITE 1 | FIRE FIGHTING TRAINING AREA | RI/FS |
| SITE 2 | DISASTER RECOVERY DISPOSAL AREA | RI/FS |
| SITE 3 | WW II LANDFILL | RI/FS |
| SITE 4 | NW LANDFILL | RI/FS |
| SITE 5 | GOLF COURSE LANDFILL | RI/FS |
| SITE 6 | HEAVY EQ. TRAINING AREA LANDFILL | RI/FS |
| ** CBC PORT HUENEME, CA (NAVY) | | |
| SITE 1 | NCEL STOR. YD | RI/FS |
| SITE 14 | EARTH MOVING AREA | RI/FS |
| SITE 19 | HARBOR AND CANALS | RI/FS |
| SITE 20 | PROPOSED NTC BLDG SITE | RI/FS |
| ** CPC DAVISVILLE, RI (NAVY) | | |
| SITE 2 | CED BATT. ACID DISP AREA | RI/FS |
| SITE 3 | CED SOLVENT DISP AREA | RI/FS |
| SITE 4 | CED ASPHALT DISPOSAL | RI/FS |
| SITE 6 | SOLVENT DISP. | RI/FS |
| SITE 7 | CALF PASTURE PT. | RI/FS |
| SITE 8 | OPPO FILM PROC. DISP | RI/FS |
| SITE 9 | LANDFILL | RI/FS |
| SITE 10 | CAMP FOGERTY DISP AREA | RI/FS |
| SITE 11 | FIRE FIGHTING TRAINING AREA | RI/FS |
| SITE 12 | OPPO TRANSFORMER OIL SPILL | RI/RA |
| SITE 13 | DIPS AREA NW OF BLDG W3, W4 AND T1 | RI/FS |
| SITE 14 | BLDG 38 TRANSFORMER LEAKS | RI/RA |
| ** FCTC DAM NECK, VA (NAVY) | | |
| SITE 1 | REGULUS LANDFILL | RI/FS |
| SITE 2 | FORMER PCB STOR | RI/FS |
| SITE 5 | PW DISPOSAL AREA | RI/FS |
| SITE 6 | FORMER PESTICIDE SHOP | RI/FS |
| ** MCAGCC 29 PALMS, CA (NAVY) | | |
| SITE 15 | LANDFILL 2 | RI/FS |
| ** MCAS BEAUFORT, SC (NAVY) | | |
| SITE 1 | FENCED HAZARD AREA | RI/FS |
| SITE 2 | LAFOREN RD LANDFILL | RI/FS |
| SITE 3 | BARROW LAY LANDFILL | RI/FS |
| SITE 5 | PESTICIDE RESIDUE PIT | RI/FS |
| SITE 6 | INERT LANDFILL SEEPAGE TRENCH | RI/FS |
| SITE 7 | DAY TANK SPILL AREA | RI/FS |
| SITE 8 | KAVIENG ST LANDFILL | RI/FS |
| SITE 10 | TANK SLUDGE DISPOSAL AREA | RI/FS |
| SITE 11 | FORMER GSE MAINTENANCE AREA | RI/FS |
| SITE 14 | INERT LANDFILL | RI/FS |
| SITE 16 | STORM SEWER OUTFALL | RI/FS |
| SITE 17 | EASTERN FIRE TRAINING PITS | RI/FS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

| Site Name | | Description | Project |
|--|----|------------------------------------|---------|
| ** MCAS CHERRY POINT, NC (NAVY) | | | |
| SITE | 1 | LANDFILL | RI/FS |
| SITE | 2 | LANDFILL | RI/FS |
| SITE | 4 | LANDFILL | RI/FS |
| SITE | 10 | OLD SANITARY LANDFILL | RI/FS |
| SITE | 15 | AREA AND DITCH BEHIND NALF | RI/FS |
| SITE | 16 | LANDFILL AT SANDY BRANCH | RI/FS |
| SITE | 17 | DPDO STORAGE AREA | RI/FS |
| SITE | 21 | BORROW PIT/LANDFILL | RI/FS |
| ** MCAS EL TORO, CA (NAVY) | | | |
| SITE | 1 | ORDNANCE DISPOSAL AREA | RI/FS |
| SITE | 2 | MAG. RD LANDFILL | RI/FS |
| SITE | 3 | ORIG. LNOFL | RI/FS |
| SITE | 5 | PERIMETER RD LNOFL | RI/FS |
| SITE | 17 | COMM. STATION LNOFL | RI/FS |
| ** MCAS KANEOHE, HI (NAVY) | | | |
| SITE | 1 | H-3 LNOFL | RI/RA |
| ** MCAS TUSTIN, CA (NAVY) | | | |
| SITE | 1 | MOFFETT TRENCHES & CRASH PIT | RI/RA |
| SITE | 2 | DISPOSAL AREA | RI/FS |
| SITE | 3 | PAINT STRIPPER DISPOSAL AREA 1 | RI/FS |
| SITE | 5 | DRAINAGE NO. 1 | RI/FS |
| SITE | 7 | GND. ADJACENT TO ARPON | RI/FS |
| SITE | 8 | DRAINAGE 1 | RA |
| SITE | 9 | HANGAR 1 | RI/FS |
| SITE | 15 | BLIMP HANGAR | RI/FS |
| ** MCB CAMP LEJEUNE, NC (NAVY) | | | |
| SITE | . | NEW RIVER OFFICERS HOUSING AREA | RI/FS |
| SITE | . | RAPID REFUELING SITE | RI/FS |
| SITE | 1 | FRENCH CREEK LIQUIDS DISPOSAL AREA | RI/FS |
| SITE | 2 | FORMER NURSERY/DAY CARE CENTER | RI/FS |
| SITE | 6 | STORAGE LOTS 201 AND 203 | RI/FS |
| SITE | 9 | FIRE FIGHTING TRAINING PIT | RI/FS |
| SITE | 21 | TRANSFORMER STORAGE LOT 140 | RI/FS |
| SITE | 22 | INDUSTRIAL TANK FARM AREA | RI/FS |
| SITE | 24 | INDUSTRIAL FLY ASH DUMP | RI/FS |
| SITE | 28 | WADSWORTH POINT BURN DUMP | RI/FS |
| SITE | 30 | SNEADS FERRY ROAD FUEL TANK AREA | RI/FS |
| SITE | 41 | CAMP GINGER DUMP | RI/FS |
| SITE | 45 | UNDERGROUND AVGAS STORAGE | RI/FS |
| SITE | 48 | NEW RIVER HOUSING DUMPSITE | RI/FS |
| SITE | 54 | CRASH CREW FIRE TRAINING | RI/FS |
| SITE | 68 | RIFLE RANGE DUMP | RI/FS |
| SITE | 69 | RIFLE RANGE CHEMICAL DUMP | RI/FS |
| SITE | 73 | LIQUID DISPOSAL | RI/FS |
| SITE | 74 | MESS HALL GREASE PIT AREA | RI/FS |
| SITE | 75 | BASKETBALL COURT SITE | RI/FS |
| SITE | 76 | CURTIS ROAD SITE | RI/FS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

| Site Name | Description | Project |
|---|--------------------------------------|---------|
| ** MCB CAMP PENDLETON, CA (NAVY) | | |
| SITE 3 | PEST CONTROL WASHRACK DRAIN | RI/RA |
| SITE 4 | MCAF DRAINAGE DITCH | RU/RA |
| SITE 5 | FIRE FIGHTING DRILL FIELD | RI/FS |
| SITE 6 | DPOO SCRAP YARD | RU/RA |
| ** MCDEC QUANTICO, VA (NAVY) | | |
| SITE 4 | OLG LNOFL | RI/FS |
| SITE 5 | OLD BATCH PLANT | RU/FS |
| SITE 7 | RECENTLY CLOSED LANDFILL | RI/FS |
| SITE 17 | ARSENIC DISPOSAL AREA | RU/FS |
| ** MCLB ALBANY, GA (NAVY) | | |
| SITE . | PENTACHLOROPHENOL DIP TANK | RU/FS |
| SITE . | CLEANING TANK BLDG 572 | RU/FS |
| SITE 2 | RUBBLE DISPOSAL AREA | RU/FS |
| SITE 3 | LONG-TERM LNOFL | RU/FS |
| SITE 5 | W. DISPOSAL AREA | RU/FS |
| SITE 6 | IND. DISCHARGE DRAINAGE DITCH | RU/FS |
| ** MCLB BARSTOW, CA (NAVY) | | |
| SITE 2 | PESTICIDE STOR. & WASHOUT | RU/RA |
| SITE 9 | FUEL DISPOSAL AREA | RU/FS |
| SITE 18 | SLUDGE WASTE AREA, YERMO | RU/RA |
| SITE 21 | IND. WASTE DISPOSAL AREA | RU/RA |
| SITE 33 | RIFLE RANGE DISPOSAL AREA | RA |
| ** MCRD Parris Island, SC (NAVY) | | |
| SITE 1 | INCINERATOR LNOFL | RU/FS |
| SITE 3 | CAUSEWAY LANDFILL | RU/FS |
| SITE 4 | DREDGE SPOILS AREA | RU/FS |
| SITE 16 | PAST RUNSEATE DISPOSAL AREA | RU/FS |
| ** MAB CORONADO, CA (NAVY) | | |
| SITE 4 | SANDBLAST GRIT DISP AREA | RU/FS |
| ** MAB LITTLE CREEK, VA (NAVY) | | |
| SITE . | SEWAGE TREATMENT PLANT LNOFL | RU/FS |
| SITE . | LAUNDRY WASTE STORAGE AREA | RU/FS |
| SITE 7 | AMPHIB BASE LNOFL | RU/FS |
| SITE 9 | DRIVING RANGE LNOFL | RU/FS |
| SITE 13 | PW COMP POP DIP TANK AND WASH | RU/FS |
| ** MAPC TRENTON, NJ (NAVY) | | |
| SITE 1 | BAROMETRIC WELL | RU/FS |
| SITE 2 | BRINE HANDLING AND WEST END DRAINAGE | RU/FS |
| SITE 3 | FIRE FIGHTING AREA | RU/FS |
| SITE 3 | SLUDGE DISPOSAL | RU/FS |
| SITE 4 | BLOG 41 OVERHEAD FUEL LEAK | RU/FS |
| SITE 5 | BLOG 42 OVERHEAD FUEL LEAK | RU/FS |
| SITE 6 | OR CONTAM. NEAR BLOG 34 | RU/FS |
| SITE 7 | FORMER MORGAN TANK LEAK | RU/FS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY R *

| Site Name | Description | Project |
|---|---------------------------------------|---------|
| ** NAS ADAK, AK (NAVY) | | |
| SITE 13 | METALS LNDFL | RVFS |
| SITE . | ANDREW LAKE LANDFILL | RVFS |
| SITE . | EXPLOSIVE ORDNANCE CONTAMINATED AREAS | RVFS |
| SITE 14 | PEST CONTROL DISP. AREA | RVFS |
| SITE 29 | FINGER BAY LANDFILL | RVFS |
| ** NAS AGANA, GU (NAVY) | | |
| SITE 3 | NAVMAG-EOD FORMER DEMO RANGE | RVFS |
| ** NAS ALAMEDA, CA (NAVY) | | |
| SITE 1 | WEST BEACH LANDFILL | RVFS |
| SITE 2 | 1943,1956 DISPOSAL ARE | RVFS |
| SITE 3 | SEAPLANE LAGOON | RVFS |
| SITE 4 | AREA 97 | RVFS |
| SITE 5 | BLDG 301 AND 389 | RVFS |
| SITE 6 | CANS C-2 AREA | RVFS |
| ** NAS BARBERS POINT, HI (NAVY) | | |
| SITE 1 | CORAL SEA RD CORAL PIT | RVFS |
| SITE 2 | ORDY POND | RVFS |
| SITE 3 | SANITARY LNDFL | RVFS |
| ** NAS CECIL FIELD, FL (NAVY) | | |
| SITE 1 | OLD LANDFILL | RVFS |
| SITE 2 | RECENT LNDFL | RVFS |
| SITE 3 | OIL SLUDGE PIT | RVFS |
| SITE 4 | GREASE PITS | RVFS |
| SITE 5 | OIL DIS. AREA NW | RVFS |
| SITE 7 | OLD FIRE FIGHTING TRAINING AREA | RVFS |
| SITE 8 | HW/FIRE FIGHTING TRAINING AREA | RVFS |
| SITE 11 | PESTICIDE DISP. | RVFS |
| SITE 16 | AIRD SEEPAGE PIT | RVRA |
| SITE 17 | OIL SLUDGE DISP PIT SW | RVFS |
| ** NAS CHASE FIELD, TX (NAVY) | | |
| SITE . | FIRE FIGHTING TRAINING AREA | RVFS |
| SITE 1 | NW HUBBLE DISP AREA | RVFS |
| SITE 2 | SE DISP AREA | RVFS |
| ** NAS CORPUS CHRISTI, TX (NAVY) | | |
| SITE | FUEL FARM 216 | RVRA |
| SITE 1 | OPDD LNDFL | RVFS |
| SITE 3 | CCAD LIQUID WASTE DISP AREA | RVFS |
| SITE 9 | NORTH GATE DISPOSAL AREA | RVFS |
| ** NAS DALLAS, TX (NAVY) | | |
| SITE 1 | FORMER FIRE FIGHTING TRAINING AREA | RVFS |
| SITE 4 | HUBBLE LANDFILL | RVFS |
| SITE 5 | PCB LEAK | RVFS |
| SITE 9 | PAINT STRIPPING AREA | RVFS |
| SITE 11 | TANG AREA DRAINAGE DITCH | RVFS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

| Site Name | Description | Project |
|---|------------------------------------|---------|
| ** NAS JACKSONVILLE, FL (NAVY) | | |
| SITE 7 | JP-4 EXPLOSION FUEL FARM | RA |
| SITE 11 | HANGAR BUILDING 101 | RA |
| SITE 12 | OLD TEST CELL BLDG | RA |
| SITE 14 | BATTERY SHOP | RA |
| SITE 15 | SOLVENT AND PAINT SLUDGE | RA |
| SITE 16 | STORM SEWER DISCHARGE BLACK POINT | RA |
| SITE 25 | BLDG 2038 | RA |
| SITE 26 | OLD MAIN REGISTERED DISPOSAL AREA | RA |
| SITE 27 | PCB STORAGE | RA |
| ** NAS KEY WEST, FL (NAVY) | | |
| SITE | NORTH LANDFILL | RUFS |
| SITE | SOUTH LANDFILL | RUFS |
| SITE | TANK FARM | RUFS |
| SITE | FIRE FIGHTING TRAINING AREA | RUFS |
| SITE 2 | TRANSFORMER OIL DISP AREA | RUFS |
| ** NAS LEMORE, CA (NAVY) | | |
| SITE 1 | LANDFILL | RUFS |
| SITE 6 | OPERATION AREA OPEN DITCH | RUFS |
| ** NAS MEMPHIS, TN (NAVY) | | |
| SITE | SEWAGE LAGOONS | RUFS |
| SITE 2 | S. LANDFILL | RUFS |
| SITE 3 | N-121 PLATING SHOP DRY WELL | RUFS |
| SITE 4 | N-121 PLATING SHOP SEWER DITCH | RUFS |
| SITE 7 | N-126 PLATING SHOP DRY WELL | RUFS |
| ** NAS MIRAMAR, CA (NAVY) | | |
| SITE 1 | FUEL FARM OPERATING AREA | RUFS |
| SITE 2 | ROSE CANYON | RUFS |
| SITE 3 | FISH POND | RUFS |
| SITE 5 | SAN CLEMENTE CANYON DISPOSAL | RUFS |
| ** NAS NORFOLK, VA (NAVY) | | |
| SITE 1 | PCB FIRE CONTAIN | RA |
| ** NAS OCEANA, VA (NAVY) | | |
| SITE | OLD STATIC ENGR TEST CELL MG SPILL | RUFS |
| SITE 2 | LINE SHACK OIL PIT | RUFS |
| SITE 14 | LANDFILL | RUFS |
| ** NAS PATUXENT RIVER, MD (NAVY) | | |
| SITE | AREA SOUTH OF BLDG 665 | RUFS |
| SITE 4 | MECHANICAL DROP SITE | RUFS |
| SITE 7 | SLUDGE AT FFA STREAM | RUFS |
| SITE 8 | ROAD SOUTH OF SUPPLY | RUFS |
| SITE 11 | FORMER SANITARY LANDFILL | RUFS |
| SITE 14 | FUEL FARM | RUFS |
| SITE 23 | OPPO SALVAGE YD | RUFS |
| SITE 24 | BLDG 114 DISCHARGES TO DRYWELL | RUFS |
| SITE 25 | SOLVENT DROP BEHIND BLDG 114 | RUFS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

| Site Name | | Description | Project |
|--|----|---------------------------------------|---------|
| ** NAS PENSACOLA, FL (NAVY) | | | |
| SITE | 1 | SAN. LNDFL | RI/RA |
| SITE | 2 | WATERFRONT SEDIMENTS | RI/FS |
| SITE | 3 | CRASH CREW TRAINING AREA | RI/FS |
| SITE | 9 | NAVY YARD DISPOSAL AREA | RI/FS |
| SITE | 11 | N. CHEVALIER FIELD DISPOSAL | RI/FS |
| SITE | 15 | PESTICIDE RINSEATE AREA | RI/RA |
| SITE | 17 | TRANSFORMER STOR. | RI/FS |
| SITE | 19 | FUEL FARM PIPELINE LEAK | RI/RA |
| SITE | 21 | SLUDGE DISPOSAL AT FUEL TANK | RI/FS |
| SITE | 22 | RFUELER REPAIR SHOP FUEL DISPOSAL | RI/FS |
| SITE | 23 | CHEVALIER FIELD PIPELINE LEAK | RI/FS |
| SITE | 26 | SUP DEPT OUTSIDE STOR | RI/FS |
| SITE | 27 | RADIUM TIAL SHOP SEWER | RI/FS |
| SITE | 29 | SOIL S. OF BLDG 3460 | RI/FS |
| SITE | 30 | BLDG 649/755 | RI/FS |
| SITE | 31 | BLDG 648 | RI/FS |
| SITE | 32 | IND. SLUDGE DRYING BEDS | RI/FS |
| SITE | 33 | WWTP PONDS | RI/FS |
| SITE | 34 | BLDG 3557 | RI/RA |
| ** NAS WHITING FIELD, FL (NAVY) | | | |
| SITE | 1 | NW DISPOSAL AREA | RI/FS |
| SITE | 3 | UNDERGROUND WASTE SOLVENT STOR AREA | RI/FS |
| SITE | 4 | NORTH AVGAS TANK SLUDGE DISPOSAL AREA | RI/FS |
| SITE | 5 | BATTERY ACID SEEPAGE PIT | RI/FS |
| SITE | 6 | S. TRANSFORMER OIL DISPOSAL AREA | RI/FS |
| SITE | 7 | S. AVGAS TANK SLUDGE DISPOSAL AREA | RI/FS |
| SITE | 8 | AVGAS FUEL SPILL AREA | RI/FS |
| SITE | 9 | WASTE FUEL DISPOSAL AREA | RI/FS |
| SITE | 10 | SE OPEN DISPOSAL AREA A | RI/FS |
| SITE | 11 | SE OPEN DISPOSAL AREA B | RI/FS |
| SITE | 12 | TETRAETHYL LEAD DISPOSAL AREA | RI/FS |
| SITE | 13 | LANDFILL | RI/FS |
| SITE | 14 | SHORT TERM SANITARY LANDFILL | RI/FS |
| SITE | 15 | SW LANDFILL | RI/FS |
| SITE | 16 | OPEN DISPOSAL AND BURNING AREA | RI/FS |
| ** NAS WILLOW GROVE, PA (NAVY) | | | |
| SITE | 1 | PRIVATE RD COMPOUND | RI/FS |
| SITE | 3 | 9TH ST LNDFL | RI/FS |
| SITE | 4 | NORTH END LNDFL | RI/FS |
| ** MCS STOCKTON, CA (NAVY) | | | |
| SITE | 1 | LANDFILL | RI/FS |
| SITE | 2 | FIRE FIGHTING TRAINING GROUND | RI/FS |
| SITE | 3 | BATTERY AND DISP AREA | RI/FS |
| SITE | 4 | GSA AREA | RI/FS |
| ** NASC PANAMA CITY, FL (NAVY) | | | |
| SITE | 1 | ORG BURN SITE | RI/FS |
| SITE | 2 | BURN AND LNDFL AREA | RI/FS |
| SITE | 3 | OLD FIRE TRAINING AREA | RI/FS |
| SITE | 4 | UNDERGROUND OIL CONTAINER AREA | RI/FS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

| Site Name | | Description | Project |
|---|----|--|---------|
| SITE | 5 | PAINT EQUIP. CLEANING AREA | RVFS |
| SITE | 6 | BURN DISPOSAL AREA | RVFS |
| SITE | 8 | SOLVENT DISP BEHIND B40 | RVFS |
| ** NETC NEWPORT, RI (NAVY) | | | |
| SITE | 1 | MCALLISTER PT LANDFILL | RVRA |
| SITE | 2 | MELLVILLE NORTH LANDFILL | RVRA |
| SITE | 7 | TANK FARM 1 | RVFS |
| SITE | 12 | TANK FARM 4 | RVFS |
| SITE | 13 | TANK FARM 5 | RA |
| SITE | 14 | DISPOSAL AREA | RVFS |
| ** NIROP BRISTOL, TN (NAVY) | | | |
| SITE | 1 | RIDGE DISPOSAL AREA | RVFS |
| SITE | 2 | HOLLOW DISPOSAL AREA | RVFS |
| SITE | 3 | SLUDGE LAGOONS | RVFS |
| SITE | 4 | PLATING WASTE DISPOSAL PIT | RVFS |
| SITE | 6 | STORM SEWER OUTFALL | RVFS |
| ** NIROP CUMBERLAND, MD (NAVY) | | | |
| SITE | 1 | NORTHERN RIVERSIDE WASTE DISPOSAL SITE | RVFS |
| SITE | 2 | PREVIOUS BURNING GROUND | RVFS |
| SITE | 3 | PREVIOUS GROUND BURNING | RVFS |
| SITE | 4 | DEVELOPING SOLUTIONS DISPOSAL AREA | RVFS |
| SITE | 5 | INERT LANDFILL (NO ORDNANCE) | RVFS |
| SITE | 6 | SENSITIVITY TEST AREA SURFACE WATER | RVFS |
| ** NIROP MINNEAPOLIS, MN (NAVY) | | | |
| SITE | 1 | WASTE DISPOSAL TRENCHES | RVFS |
| SITE | 2 | WASTE DISPOSAL PITS | RVFS |
| SITE | 3 | AREA BENEATH THE NIROP BLDG | RVFS |
| ** NCS INMAN HEAD, MD (NAVY) | | | |
| SITE | 5 | BLDG 731 X-RAY COOLING WATER | RVFS |
| SITE | 8 | MERCURY DEPOSITS CLAZZI PLANT | RVRA |
| SITE | 12 | TOWN GUT | RVFS |
| ** NS MAYPORT, FL (NAVY) | | | |
| SITE | 1 | LANDFILL A | RVFS |
| SITE | 2 | LANDFILL B | RVFS |
| SITE | 8 | WASTE OIL PIT | RVFS |
| SITE | 9 | FUEL SPILL AREA | RVFS |
| SITE | 14 | MERC/OILY WASTE SPILL | RVFS |
| ** NS ROOSEVELT ROADS, PR (NAVY) | | | |
| SITE | 1 | QUEBRADA DISP SITE | RVFS |
| SITE | 7 | LANDFILL | RVFS |
| SITE | 9 | PCB DISPOSAL DRY DOCK AREA | RVFS |
| SITE | 10 | BLDG 25 | RVFS |
| SITE | 11 | BLDG 145 | RVFS |
| SITE | 12 | TWO WAY RD FUEL FARM | RVFS |
| SITE | 13 | TANKS 210 TO 217 | RVFS |
| SITE | 14 | EMSEN MONDA SHORELINE MAG | RVFS |
| SITE | 15 | SUBSTATION 2 | RVFS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

| Site Name | Description | Project |
|--|-------------------------------|---------|
| SITE 16 | OLD POWER PLANK, BLDG 38 | RI/FS |
| ** NSB BANGOR, WA (NAVY) | | |
| SITE | MANCHESTER PCB CONT. | RI/FS |
| SITE | MANCHESTER LEAD CONT. | RI/FS |
| ** NSB NEW LONDON, CT (NAVY) | | |
| SITE | OBDA NE | RI/FS |
| SITE 2 | AREA A LNDFL | RI/FS |
| SITE 3 | OVER-BANK DISPOSAL AREA | RI/FS |
| SITE 6 | DPDO AREA | RI/FS |
| ** NSB SAN DIEGO, CA (NAVY) | | |
| SITE 9 | NOSC BLDG A34 PLATING WASTE | RI/FS |
| ** NSC CHEATHAM ANX WILLIAMSBURG, VA (NAVY) | | |
| SITE 9 | TRANSFORMER STOR AREA | RI/FS |
| SITE 11 | BONE YD | RI/FS |
| SITE 13 | SLUDGE FARM | RI/FS |
| SITE 15 | TANK BOTT. | RI/FS |
| SITE 19 | TANK BOTT. | RI/FS |
| SITE 20 | TANK BOTT. | RI/FS |
| SITE 21 | TANK BOTT. | RI/FS |
| SITE 26 | TANK BOTT. | RI/FS |
| SITE 27 | FUEL PIT AT B21 | RI/FS |
| SITE 31 | ABANDON NSFO TANKS | RI/FS |
| ** NSC NORFOLK, VA (NAVY) | | |
| SITE | AVGAS ON GROUND NEAR TANK 275 | RI/FS |
| SITE 5 | UNDERGROUND PIPE SPILL AREA | RI/FS |
| ** NSGA SEBAMA SECA, PA (NAVY) | | |
| SITE 6 | FORMER PEST CONTROL | RI/FS |
| SITE 7 | LEACHATE POND AREA | RI/FS |
| ** NSWC DANLIGREN, VA (NAVY) | | |
| SITE 5 | 1400 AREA LANDFILL | RI/FS |
| SITE 9 | DISPOSAL/BURN AREA | RI/FS |
| SITE 10 | MERC CONT | RI/FS |
| SITE 12 | CHEM BURN PIT | RI/FS |
| SITE 19 | TRANSFORMER DRAINING | RI/RA |
| SITE 25 | PESTICIDE RINSING | RI/RA |
| ** NSWC WMT' OAK, MD (NAVY) | | |
| SITE 2 | APPLE ORCHARD LNDFL | RI/FS |
| SITE 4 | CHEM BURIAL SITE | RI/FS |
| SITE 7 | ORDNANCE BURN AREA | RI/FS |
| SITE 8 | ABANDON CHEM DISP | RI/FS |
| SITE 9 | IND WW DISP FROM AREA 300 | RI/FS |
| SITE 11 | IND WW DISP FROM AREA 100 | RI/FS |
| ** NSY CHARLESTON, SC (NAVY) | | |
| SITE 1 | BASE LANDFILL | RI/FS |
| SITE 2 | CHEM DISPOSAL AREA | RI/FS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

| Site Name | | Description | Project |
|---------------------------------|----|-----------------------------------|---------|
| SITE | 3 | OIL SLUDGE PITS | RVFS |
| SITE | 4 | POL TRANSFER PT | RVRA |
| SITE | 5 | FORMER FIRE FIGHTING TRAINING PIT | RVRA |
| SITE | 6 | PCB STORAGE AREA | RVRA |
| SITE | 7 | FORMER PESTICIDE MIXING AREA | RVFS |
| SITE | 9 | NSC OLD POL STORAGE AREA | RVRA |
| ** NSY HUNTERS POINT, CA (NAVY) | | | |
| SITE | 1 | OIL RECLAMATION PONDS | RVFS |
| SITE | 3 | IND. LNDFL | RVFS |
| SITE | 5 | SCRAP YD | RVFS |
| SITE | 7 | BLDG 521 POWER PLANT | RVRA |
| SITE | 8 | PICKLING AND PLATE YD | RVFS |
| SITE | 9 | BAY FILL | RA |
| SITE | 11 | BATTERY AND PLATING SHOP | RVFS |
| ** NSY MARE ISLAND, CA (NAVY) | | | |
| SITE | - | LEAD OXIDE AREAS | RVFS |
| SITE | 1 | LANDFILL | RVFS |
| SITE | 2 | OIL SUMPS | RVRA |
| SITE | 4 | BERTHS 4 AND 5 | RVRA |
| SITE | 5 | 900 AREA | RVRA |
| SITE | 6 | BLDG 505 | RA |
| SITE | 7 | BLDG 629 BATTERY STORAGE | RA |
| SITE | 12 | CONCORD ANNEX | RVRA |
| SITE | 13 | MARE ISLAND STRAIT | RA |
| SITE | 14 | SLUDGE PONDS | RVRA |
| ** NSY PEARL HARBOR, HI (NAVY) | | | |
| SITE | - | PCB EXPLOSION CONTAM. | RA |
| SITE | 4 | PEARL CITY PENINSULA LANDFILL | RVFS |
| SITE | 7 | TRANSFORMER STATION D-4 | RVFS |
| SITE | 22 | OIL WASTE DISPOSAL PIT | RVFS |
| ** NSY PHILADELPHIA, PA (NAVY) | | | |
| SITE | - | FUEL FARM | RVFS |
| SITE | 2 | BLASTING GRIT AND DRUM DISP AREA | RVFS |
| SITE | 4 | CYLINDER DISP AREA | RVRA |
| ** NSY PORTSMOUTH, NH (NAVY) | | | |
| SITE | 1 | JAMAICA ISLAND LNDFL | RVFS |
| ** NTC GREAT LAKES, IL (NAVY) | | | |
| SITE | 7 | RTC SILK SCREENING SHOP | RVFS |
| SITE | 8 | EXCHANGE SERVICE STATION | RVFS |
| SITE | 12 | HARBOR DREDGE SPOIL AREA | RVFS |
| ** NTC ORLANDO, FL (NAVY) | | | |
| SITE | 1 | NORTH FIELD LNDFL | RVFS |
| SITE | 3 | MCCOY LNDFL | RVFS |
| SITE | 6 | OPDO MCCOY ANNEX | RVFS |
| SITE | 8 | NTC PESTICIDE BLDG | RVFS |
| SITE | 9 | LAKE BALDWIN | RVFS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

| Site Name | | Description | Project |
|-------------------------------------|----|--|---------|
| ** NTC SAN DIEGO, CA (NAVY) | | | |
| SITE | 1 | REFUSE DISP. | RVFS |
| SITE | 3 | EXCHANGE GAS STATION | RVFS |
| SITE | 4 | OLD MTR POOL AND BLDG 3 UNDERGRND TANK | RVFS |
| ** NWC CHINA LAKE, CA (NAVY) | | | |
| SITE | . | MINIDECK | RVFS |
| SITE | . | ARMITAGE FIELD | RVFS |
| SITE | 29 | G1 EAST DISP. AREA | RVFS |
| ** NWRP DALLAS, TX (NAVY) | | | |
| SITE | 1 | W. DRAINAGE LAGOON | RVFS |
| SITE | 2 | E. DRAINAGE LAGOON | RVFS |
| SITE | 7 | W. OIL BURNER & DRUM AREA | RVFS |
| SITE | 8 | IND SLUDGE DRUM STOR. | RVFS |
| SITE | 10 | WASTE POL SPILL | RVFS |
| ** NWRP MCGREGOR, TX (NAVY) | | | |
| SITE | 2 | AREA F-WEST SETTLING PONDS | RVFS |
| SITE | 3 | AREA F-STOCK POND | RVFS |
| SITE | 5 | AREA G-PEST. DUMP | RVFS |
| SITE | 6 | AREA L-ASBESTOS PILE | RVFS |
| SITE | 7 | AREA L-TNT WASHOUT LAGOONS | RVFS |
| SITE | 9 | AREA M-NORTH POND | RVFS |
| SITE | 12 | AREA-M TNT WASHOUT PITS | RVFS |
| ** NWS CHARLESTON, SC (NAVY) | | | |
| SITE | . | S. ANNEX MUNITIONS DISPOSAL | RVFS |
| SITE | . | PCP DIP TANK AT BLDG 88 | RVFS |
| SITE | 1 | SOUTH SIDE ORDNANCE DISPOSAL | RA |
| SITE | 2 | SOUTH SIDE LNOFL | RVRA |
| SITE | 5 | NORTH SIDE LNOFL | RVRA |
| SITE | 8 | NORTH SIDE BURN AREA | RVRA |
| SITE | 9 | OLD SOUTH SIDE PESTICIDE RINSE AREA | RVRA |
| SITE | 12 | S. ANNEX WASTE DISPOSAL AREA | RVRA |
| ** NWS CONCORD, CA (NAVY) | | | |
| SITE | 1 | TIDAL AREA LANDFILL | RVFS |
| SITE | 2 | R AREA DISPOSAL SITE | RVFS |
| SITE | 3 | KELN SITE | RVFS |
| SITE | 4 | ALLIED SITE A | RVFS |
| SITE | 5 | ALLIED SITE B | RVFS |
| SITE | 6 | COKE PILE SITE | RVFS |
| SITE | 9 | FROD AND TAYLOR RD DISPOSAL | RVFS |
| SITE | 11 | WOOD HOGGER | RVFS |
| SITE | 13 | BURNING AREA | RVFS |
| SITE | 14 | KENNER BLVD WELLS | RVFS |
| SITE | 16 | BLACK PIT AT RED ROCK | RVFS |
| SITE | 25 | K-2 AREA | RVFS |
| SITE | 26 | G-1 AREA | RVFS |
| ** NWS SEAL BEACH, CA (NAVY) | | | |
| SITE | 1 | WW SETTLING POND | RVFS |
| SITE | 2 | OIL ON ROADS | RVFS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

| Site-Name | | Description | Project |
|----------------------------------|----|---------------------------------|---------|
| SITE | 2 | EVAP. POND | RI/FS |
| SITE | 6 | EXPLOSIVES BURNING GROUND | RI/FS |
| SITE | 7 | STATION LANDFILL | RI/FS |
| SITE | 8 | BATTERY SHOP DRAINAGE | RI/FS |
| SITE | 22 | OIL ISLAND | RI/FS |
| SITE | 24 | BLDG 437 QUENCH WATER DISPOSAL | RI/FS |
| ** NWS YORKTOWN, VA (NAVY) | | | |
| SITE | 1 | CUDLEY RD LANDFILL | RI/FS |
| SITE | 2 | TURKEY RD LANDFILL | RI/FS |
| SITE | 3 | GRP 16 MAG LANDFILL | RI/FS |
| SITE | 4 | BURNING PAD RESIDUE LNDFL | RI/FS |
| SITE | 5 | SURPLUS TRANSFORMER STORAGE | RI/FS |
| SITE | 6 | EXPLOSIVES CONT. WW IMPOUNDMENT | RI/FS |
| SITE | 7 | PLANT 3 EXPL. CONT. WW | RI/FS |
| SITE | 9 | EXPL. CONT. WW | RI/FS |
| SITE | 12 | BARRACKS ROAD LANDFILL | RI/FS |
| SITE | 16 | WEST RD LNDFL | RI/FS |
| SITE | 17 | HOLM RD LNDFL | RI/FS |
| SITE | 18 | BLDG 476 DISCHARGE | RI/FS |
| ** NWSC CRANE, IN (NAVY) | | | |
| SITE | 1 | BATTERY SHOP | RI/FS |
| SITE | 3 | BURNING PIT | RI/FS |
| SITE | 9 | DEMOLITION AREA | RI/FS |
| SITE | 10 | ORDNANCE BURNING GROUNDS | RI/FS |
| SITE | 11 | CHEM. BURIAL GROUNDS | RI/FS |
| SITE | 12 | DYE BURIAL GROUNDS | RI/FS |
| SITE | 13 | LOAD AND FILL AREA | RI/FS |
| SITE | 16 | CAST HIGH EXPLOSIVES FILL | RI/FS |
| SITE | 17 | LOAD AND FILL POND | RI/FS |
| ** PMTC POINT MUGU, CA (NAVY) | | | |
| SITE | 1 | LAGOON LANDFILL | RI/FS |
| SITE | 2 | OLD SHOPS AREA | RI/FS |
| SITE | 3 | FUEL FARM | RI/FS |
| SITE | 4 | PUBLIC WORKS STOR YARD | RI/FS |
| SITE | 5 | OLD "B AREA" SHOPS | RI/FS |
| SITE | 6 | BLDG 311 YARD | RI/FS |
| SITE | 7 | ELECTRIC SUBSTATION 680 | RI/FS |
| SITE | 9 | MAIN BASE FIRE SCHOOL | RI/FS |
| SITE | 11 | LAGOON AND DRAINAGE DITCHES | RI/FS |
| ** PWC GUAM, GU (NAVY) | | | |
| SITE | 16 | PCB TRANSFORMER FILTER AREA | RI/RA |
| ** PWC NORFOLK, VA (NAVY) | | | |
| SITE | 4 | P-71 TRANSFORMER STORAGE AREA | RA |
| ** SPOC MECHANICSBURG, PA (NAVY) | | | |
| SITE | 3 | BURN AREA | RI/FS |
| SITE | 7 | BLDG 403/404 SOLVENT DISP | RI/FS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

| Site Name | Description | Project: |
|--|-------------------------------------|----------|
| | | |
| | | |
| | | |
| | | |
| ** AFP NO.3, TULSA, OK (AF) | | |
| SITE A | H.W. WASTE STORAGE | RI/FS |
| SITE B | H.W. STOR. AREA | RI/FS |
| SITE C | H.W. STORAGE | RI/FS |
| SITE FT 01 | FDTA | RI/FS |
| SITE LF 01 | HARDFILL AREAS | RI/FS |
| SITE RW 01 | LOW LEVEL RADIOACTIVE DISP. AREA | RI/FS |
| | | |
| ** AFP NO.36, EVANDALE, OH (AF) | | |
| SITE LU 01 | UNDERGROUND FUEL LEAK NW OF BLDG B | RA/RO |
| SITE SS 01 | FUEL SPILL | RI/FS |
| | | |
| ** AFP NO.38, NY (AF) | | |
| SITE 06 | WASTE SITE 1 | RI/FS |
| SITE 07 | WASTE SITE 2 | RI/FS |
| SITE 08 | WASTE SITE 3 | RI/FS |
| SITE 09 | WASTE SITE 5 | RI/FS |
| | | |
| ** AFP NO.42, PALMDALE, CA (AF) | | |
| SITE 2-7 | ENGINE RUN UP AREA | RI/FS |
| SITE 5-1 | ENGINE RUN UP AEA | RI/FS |
| SITE 7-1 | VEHICLE WASHRACK AND LUST | RI/FS |
| SITE 7-2 | FDTA (ORIGINAL) | RI/FS |
| SITE C-1 | FDTA (ABANDON) | RI/FS |
| | | |
| ** AFP NO.71, CORINNE, UT (AF) | | |
| SITE OT 02 | N DRAINAGE DITCH | RI/FS |
| | | |
| ** AFP NO.85, COLUMBUS, OH (AF) | | |
| SITE 03 | PCB SPILL SITE | RI/FS |
| SITE 04 | FDTA | RI/FS |
| SITE 05 | MASONS RUN OIL/FUEL SPILL | RI/FS |
| SITE 08 | JAMES ROAD HAZ WASTE STOR PAD | RI/FS |
| | | |
| ** ALTUS AFB, OK (AF) | | |
| SITE LF 1 | LF 1 INVESTIGATION | RI |
| SITE LF 2 | LF 2 INVESTIGATION | RI |
| SITE LF 3 | LF 3 INVESTIGATION | RI |
| SITE FT 01 | FTA 3 | RI |
| SITE FT 02 | FPA 1 | RI |
| SITE FT 03 | FTA 2 | RI |
| SITE FT 04 | FTA 4 | RI |
| SITE WP 01 | INDUSTRIAL WASTE LAGOONAGE WASHRACK | RI/RO |
| SITE WP 02 | AIRCRAFT WASHRACK POND | RI |
| | | |
| ** ANDREWS AFB, MD (AF) | | |
| SITE 02 | SP 4, FUEL OIL SPILL | RI |
| SITE SP 2 | LEAK AREA PD 680 | RI |
| SITE SP 6 | BRANDYWINE HOUSING SPILL | RI |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

| Site Name | | Description | Project |
|-----------------------------|-------|---------------------------------|---------|
| SITE | FT 01 | FPA 1 | RI |
| SITE | FT 02 | FPA 2 | RI |
| SITE | FT 03 | FT-4, FPTA NO 4 | RI |
| SITE | JP 04 | SP-3, JP-4 SPILL | RI |
| SITE | LF 01 | D-1, LANDFILL 1 | RI |
| SITE | LF 02 | D-3, LANDFILL 3 | RI |
| SITE | LF 03 | D-4, LANDFILL 4 | RI |
| SITE | LU 01 | SP-8, MOGAS LEAK | RI |
| SITE | SP 05 | SP-5, EAST SIDE GAS STATION | RI |
| SITE | WP 01 | WAP-1, BRANDYWINE RECEIVER AREA | RI |
| ** BARKSDALE AFB, LA (AF) | | | |
| SITE | FT 01 | FPTA 1 | RI/RO |
| ** BEALE AFB, CA (AF) | | | |
| SITE | 02 | PHOTO WWTP | RI |
| SITE | 03 | PHOTO WASTE INJ. WELL | RI |
| SITE | 04 | FPTA 1 & 2 | RI/PA |
| SITE | 04 | FPTA NO. 1 & 2 | RA |
| SITE | 05 | BATTERY SHOP DRY WELL | RI |
| SITE | 14 | LANDFILL 1 | RI |
| ** BELLOWS AFS, HI (AF) | | | |
| SITE | LF 01 | LANDFILL | RI |
| ** BERGSTROM AFB, TX (AF) | | | |
| SITE | 23 | FTA | RA/RO |
| ** BLYTHEVILLE AFB, AR (AF) | | | |
| SITE | 02 | SPILL 2 | RI |
| SITE | 03 | SPILL 3 | RI |
| SITE | FT 01 | FIRE TRAINING AREA | RI |
| SITE | LF 02 | LANDFILL 2 | RI |
| SITE | LF 04 | LANDFILL 4 | RI |
| SITE | LU 01 | UNDERGROUND WASTE OIL TANK | RI |
| ** BOLLING AFB, DC (AF) | | | |
| SITE | 02 | HEATING PLANT OIL LEAK | RI |
| SITE | LF 01 | LANDFILL 1 | RI |
| ** BROOKS AFB, TX (AF) | | | |
| SITE | LF 05 | LANDFILL 5 | RI |
| SITE | LF 06 | LANDFILL 6 | RI |
| SITE | WP 01 | LIQUID FUEL SLUDGE DISPOSAL | RI |
| ** BURLINGTON ANG, VT (AF) | | | |
| SITE | 01 | FOTA AND OLD LANDFILL | RI/FS |
| ** CAMPION AFS, AK (AF) | | | |
| SITE | OS 02 | WASTE ACCUMULATION 2 | RI |
| SITE | LF 01 | LANDFILL 1 | RI |
| SITE | SS 01 | SPILL / LEAK 1 | RI |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

| Site Name | Description | Project |
|--------------------------------------|---------------------------------------|---------|
| ** CANNON AFB, NM (AF) | | |
| SITE 01 | LANDFILL 1 | RI |
| SITE 11 | ENGINE TEST CELL | RI |
| SITE 15 | AGE DRAINAGE DITCH | RI |
| ** CAPE LISBURNE AFS, AK (AF) | | |
| SITE LF 01 | LANDFILL 1 | RI |
| SITE SS 01 | SPILL 1 | RI |
| SITE SS 02 | SPILL 2 | RI |
| SITE WP 02 | DUMP 2 | RI |
| ** CAPE NEWENHAM AFS, AK (AF) | | |
| SITE DS 01 | WASTE ACCUMULATION 3 | RI |
| SITE LF 01 | LANDFILL 1 | RI |
| SITE LF 02 | LANDFILL 2 | RI |
| SITE OT 01 | ROAD OILING | RI |
| SITE WP 01 | DUMP AREA | RI |
| ** CAPE ROMANZOF AFS, AK (AF) | | |
| SITE DS 01 | WASTE ACCUMULATION 2 | RI |
| SITE LF 01 | LANDFILL 1 | RI |
| SITE LF 02 | LANDFILL 2 | RI |
| SITE LF 03 | LANDFILL 3 | RI |
| SITE OT 01 | ROAD OILING | RI |
| SITE SS 01 | WASTE ACCUMULATION 1 | RI |
| SITE SS 02 | WASTE ACCUMULATION 3 | RI |
| SITE SS 03 | SPILL 3 | RI |
| SITE SS 04 | SPILL 4 | RI |
| SITE WP 01 | DUMP AREAS | RI |
| ** CARSWELL AFB, TX (AF) | | |
| SITE 01 | LANDFILL 1 | RI |
| SITE 04 | LANDFILL 4 | RI |
| SITE 05 | LANDFILL 5 | RI |
| SITE 10 | WASTE BURIAL AREA | RI |
| SITE 12 | FOTA 2 | RI/RO |
| SITE 13 | FLIGHTLINE DRAINAGE DITCH | RI/RA |
| SITE 15 | ENTOMOLOGY DRY WELL | RI |
| SITE 16 | UNNAMED STREAM | RI |
| SITE 17 | POL TANK FARM | RI/RO |
| SITE OT 01 | WEAPONS STORAGE AREA, INSPECTION SHOP | RI |
| ** CASTLE AFB, CA (AF) | | |
| SITE FT 01 | FOTA 1 | RO |
| SITE SS 01 | FUEL SPILL 1 | RO |
| SITE SS 02 | FUEL SPILL 4 | RO |
| ** CHARLESTON AFB, SC (AF) | | |
| SITE 01 | BURIED AREA | RI |
| SITE 02 | CONTAMINATED LAGOON | RI/RA |
| SITE DS 01 | H2 WASTE STORAGE AREA 1 ZONE 2 | RI |
| SITE DS 02 | H2 WASTE STORAGE ZONE 2 | RI |
| SITE DS 03 | MATERIALS STOR. AREA | RI |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

| Site Name | | Description | Project |
|--------------------------|-------|----------------------------------|---------|
| SITE | DS 04 | SALV MATERIAL STORAGE AREA | RI |
| SITE | FT 02 | FIRE DEMO AREA 2 | RI |
| SITE | FT 03 | FPTA 1 | RV/RA |
| SITE | FT 04 | FPTA 2 | RI |
| SITE | FT 05 | FPTA 3 | RV/RA |
| SITE | FT 06 | FPTA NORTH AUX. FIELD | RI |
| SITE | LF 01 | LANDFILL 1 | RV/RA |
| SITE | LF 02 | LANDFILL 2 | RV/RA |
| SITE | LF 03 | LANDFILL 3 | RV/RA |
| SITE | LF 04 | LANDFILL 4 | RI |
| SITE | LU 01 | GAS STATION LEAK | RI |
| SITE | OT 01 | ENTOMOLOGY (PRESENT) | RI |
| SITE | OT 02 | HARDFILL 1 | RI |
| SITE | OT 03 | HARDFILL 3, ZONE 1 | RI |
| SITE | OT 04 | ENTOMOLOGY SHOP (PAST) | RI |
| SITE | SS 01 | DEFENSE FUEL SUPPORT TANK FARM | RI |
| SITE | SS 02 | NORTH PCB SPILL | RI |
| SITE | SS 03 | SOUTH PCB SPILL | RI |
| SITE | WP 01 | DUMP SITE | RI |
| ** COLUMBUS AFB, MS (AF) | | | |
| SITE | LU 01 | LU01-10 | RV/FS |
| ** DOBBINS AFB, GA (AF) | | | |
| SITE | 01 | LANDFILL | FS |
| SITE | 02 | FDTA, PAST | FS |
| SITE | 04 | BIG LAKE | FS |
| ** DOVER AFB, DE (AF) | | | |
| SITE | 01 | LANDFILL 5 | RI |
| SITE | SP 03 | SPILL SITE | RI |
| ** DYESS AFB, TX (AF) | | | |
| SITE | FT 01 | FIRE TRAINING AREA 1 | RI |
| SITE | LF 01 | LANDFILL/POL SLUDGE DISP. AREA 2 | RI |
| SITE | OT 01 | EVAPORATION PIT, WASTE TANK | RI |
| SITE | OT 02 | N. DIVERSION DITCH 2 | RI |
| ** EDWARDS AFB, CA (AF) | | | |
| SITE | 01 | DEFERRED FY86 FTA CLEAN-UP | RA |
| ** EIELSON AFB, AK (AF) | | | |
| SITE | 02 | OLD BASE LNOFL | RI |
| SITE | 03 | CURRENT BASE LNOFL | RI |
| SITE | 08 | FDTA (PAST) | RI |
| SITE | 09 | FDTA (PRESENT) | RI |
| SITE | 10 | E-2 POL STOR. | RI |
| SITE | 11 | FUEL SATURATED AREA | RI |
| SITE | 13 | E-4 DIESEL FUEL SPILL | RI |
| SITE | 15 | FUEL LINE | RI |
| SITE | 16 | MOGAS FUEL SPILL | RI |
| SITE | 17 | CANOL PIPELINE SPILL | RI |
| SITE | 18 | OLD BOILER | RI |
| SITE | 19 | JP-4 SPILL | RI |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

| Site Name | | Description | Project |
|------------------------------------|-------|--------------------------------|---------|
| SITE | 20 | REFUELING LOOP | RI |
| SITE | 32 | SEWAGE TREATMENT SPILL POND | RI |
| SITE | 35 | ASPHALT MIXING AREA | RI |
| SITE | 36 | DRUM STORAGE SITE | RI |
| SITE | 37 | DRUM STORAGE | RI |
| SITE | 38 | WASTE POL PIT | RI |
| SITE | 39 | ASPHALT LAKE | RI |
| SITE | 41 | AUTO HOBBY SHOP | RI |
| SITE | 01 | ORIG. BASE LNOFL | RI |
| ** ELLINGTON ANG, TX (AF) | | | |
| SITE | SS 01 | SPILL NEAR BLDG 1287 | RI |
| ** ELLSWORTH AFB, SD (AF) | | | |
| SITE | SP-7 | PUMP HOUSE NO. 6 | RI |
| SITE | SP-9 | AUTO SHOP HEATING FUEL | RI |
| SITE | FT 01 | FIRE TRAINING AREA | RI |
| SITE | LF 01 | LANDFILL 1 | RI |
| SITE | LF 03 | LANDFILL 3 | RI |
| ** ELMENDORF AFB, AK (AF) | | | |
| SITE | 14 | MOGAS SPILL SITE | RI |
| SITE | D-17 | SHOP WASTE DISPOSAL | RI |
| SITE | D-5A | SANITARY LANDFILL | RI |
| SITE | FT-1 | FIRE TRAINING AREA | RI |
| SITE | IS-1 | BLDG 42-400 FLOOR DRAINS | RI |
| SITE | SP-2 | JP-4 LINE LEAK | RI |
| SITE | SP-5 | BULK STORAGE TANK SPILL | RI |
| SITE | SP-6 | DIESEL FUEL SPILL | RI |
| SITE | SP-7 | PUMPHOUSE 3 SPILL SITE | RI |
| SITE | SP-11 | JP-4 LINE LEAK | RI |
| SITE | SP-15 | AVGAS SPILL | RI |
| ** ENGLAND AFB, LA (AF) | | | |
| SITE | D 15 | POL SLUDGE WEATHERING PIT 4 | RA/RD |
| ** F.E. WARREN AFB, WY (AF) | | | |
| SITE | 01 | SITE 1, BLDG 400 MOGAS SPILL | RI |
| SITE | 02 | SITE 2, BLDG 810 SPILL | RI |
| SITE | FT 01 | PPYA 1 | RI/RD |
| SITE | FT 02 | PPYA 2 | RI |
| SITE | LF 01 | LANDFILL 2 | RI |
| SITE | LF 02 | LANDFILL 3 | RI |
| SITE | LF 03 | LANDFILL 4 | RI |
| SITE | LF 04 | LANDFILL 5 | RI |
| SITE | LF 05 | LANDFILL 6 | RI |
| SITE | OT 01 | ACID DRY WELL WEST OF BLDG 826 | RI/RD |
| ** FARMCHILD AFB, WA (AF) | | | |
| SITE | FT 01 | FIRE TRAINING AREA | RI |
| SITE | SS 03 | PS 2 REFUELING HTS 18 & 19 | RI |
| SITE | SS 04 | PS-3 AREA C PUMPHOUSE FUELING | RI |
| SITE | SS 05 | PS 4 PUMPHOUSE B | RI |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY *

| Site Name | Description | Project |
|--|--------------------------------|---------|
| SITE SW 01 | BASE LANDFILL NW OF T/W8 | RD |
| SITE SW 08 | BASE LANDFILL AT CRAIG RD | RD |
| SITE WP 01 | 08-1 OLA 25 ADS, MICA PEAK JSS | RD |
| SITE WP 02 | WW-1 INDUSTRIAL WASTE LAGOON | RD |
| ** FORBES FIELD, KS (AF) | | |
| SITE 03 | MULTISITES | RVFS |
| SITE 04 | REFUELING HYDRANT 1 | RI |
| SITE 05 | REFUELING HYDRANT 2 | RVFS |
| ** FORT YUKON AFS, AK (AF) | | |
| SITE DS 01 | WASTE ACCUMULATION | RI |
| SITE LF 01 | LANDFILL 1 | RI |
| SITE OT 01 | OIL DISCHARGE | RI |
| SITE OT 02 | ROAD OILING | RI |
| SITE OT 03 | WHITE ALICE SITE | RI |
| ** GALENA AIRPORT, AK (AF) | | |
| SITE FT 01 | FPTA | RI |
| SITE SS 01 | SPILL 1 | RI |
| SITE SS 02 | SPILL 2 | RI |
| SITE SS 03 | SPILL 3 | RI |
| SITE SS 04 | POL TANK FARM | RI |
| ** GEORGE AFB, CA (AF) | | |
| SITE S 20 | IND. OUTFALL DITCH 6 | RA/RD |
| ** GRISSOM AFB, IN (AF) | | |
| SITE LF 03 | LANDFILL 3 | RI |
| ** HANSCOM AFB, MA (AF) | | |
| SITE FT 01 | FIRE TRAINING 1 | RD |
| ** HICKAM AFB, HI (AF) | | |
| SITE 05 | TRI SERVICES LANDFILL | RU/RD |
| SITE 07 | HICKAM SITE 7 | RU/RD |
| SITE 13 | HICKAM SITE 13 | RU/RD |
| SITE 14 | HICKAM SITE 14 | RU/RD |
| SITE 15 | HICKAM SITE 15 | RU/RD |
| SITE 19 | HICKAM SITE 19 | RU/RD |
| ** HOLLoman AFB, NM (AF) | | |
| SITE 17 | BX SERVICE STATION FUEL LEAK | RU/RD |
| ** HOMESTEAD AFB, FL (AF) | | |
| SITE SP 4 | LEAK AT POL STORAGE TANK FARM | RI |
| SITE SP 5 | PUMP STATION 9 ON FLIGHT LINE | RA |
| SITE SP 6 | NOGAS LEAK BX STATION | RI |
| ** INDIAN MOUNTAIN RESEARCH SITE, AK (AF) | | |
| SITE 9 | SPILLS 1, 3 AND 8 | RI |
| SITE DS 01 | DUMP AREAS | RI |
| SITE DS 02 | WASTE ACCUMULATION AREA 1 | RI |
| SITE DS 03 | WASTE ACCUMULATION AREA 5 | RI |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

| Site Name | | Description | Project |
|-----------------------------|-------|-----------------------------------|---------|
| SITE | LF 01 | LANDFILL 1 | RI |
| SITE | LF 02 | LANDFILL 2 | RI |
| SITE | LF 03 | WASTE ACCUMULATION AREA 4 | RI |
| SITE | OT 01 | ROAD OILING | RI |
| SITE | SS 02 | WASTE ACCUMULATION AREA 6 | RI |
| SITE | SS 01 | WASTE ACCUMULATION AREA 3 | RI |
| ** K.I.SAWYER, MI (AF) | | | |
| SITE | DP-2 | HOSPITAL DRAINAGE POND | RI |
| SITE | DP-3 | NORTHSIDE SHOP DRAINAGE PIT | RI |
| SITE | FT 01 | FPTA | RI |
| SITE | LF 01 | LANDFILL 1 | RI |
| SITE | LF 02 | LANDFILL 2 | RI |
| SITE | OT 01 | WALLIS TERM. ANNNX | RI |
| ** KEESLER AFB, MS (AF) | | | |
| SITE | FT 01 | FPTA AND LANDFILL 3 | RI |
| SITE | LF 02 | LANDFILL 2 | RI |
| SITE | OT 01 | TRANSFORMER STORAGE | RI |
| SITE | WP 01 | ETCHING SHOP DRAINAGE PIT | RI |
| SITE | WP 02 | PESTICIDES RINSE PIT | RI |
| SITE | WP 03 | SLUDGE BURIAL SITE AT LF 1 | RI |
| SITE | WP 04 | TFL SLUDGE BURIAL AT ANNEX 1 | RI |
| ** KIRTLAND AFB, NM (AF) | | | |
| SITE | LF 01 | LANDFILL 1 | RA |
| SITE | LF 02 | LANDFILL 2 RIP/RAP | FS/RO |
| ** LITTLE ROCK AFB, AR (AF) | | | |
| SITE | 01 | BULK FUEL TANK FARM | RI |
| SITE | 02 | FLIGHT-LINE FUEL LEAKS | RI |
| SITE | 03 | LANDFILL 1 | RI |
| SITE | 04 | LANDFILL 2 | RI |
| SITE | 05 | LANDFILL 3 | RI |
| SITE | 06 | LANDFILL 4 | RI |
| SITE | 07 | LANDFILL 5 | RI |
| SITE | 08 | LANDFILL 6 | RI |
| SITE | 09 | LANDFILL 7 | RI |
| SITE | 10 | POL FUEL SPILL | RI |
| SITE | FT 01 | FPTA | RI |
| SITE | WP 01 | DISCHARGE PIT | RI |
| SITE | WP 02 | DRMS STORAGE | RI |
| ** LORING AFB, ME (AF) | | | |
| SITE | 01 | LAJFL 1 | RI |
| SITE | 03 | LAJFL 5 | RI |
| SITE | 04 | RECIEVER SITE | RI |
| SITE | 05 | QUARRY SITE | RU/RO |
| SITE | 06 | FUEL TANK FARM | RI |
| SITE | 07 | FOTA | RI |
| SITE | 08 | RR MAIN SITE | RI |
| SITE | 10 | FLIGHTLINE DRAINAGE DITCH, ZONE 2 | RU/FS |
| SITE | 11 | NOSE DOCK AREA | RI |
| SITE | 12 | FLIGHTLINE AREA 2 | RI |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

| Site Name | Description | Project |
|------------------------------------|--------------------------------|---------|
| SITE 13 | BX GAS STATION | RI |
| SITE 17 | UNDRGRND TRANSFORMER SITE | RI |
| ** LOS ANGELES AFS, CA (AF) | | |
| SITE SS 01 | FUEL SPILL SITE | RA/RO |
| ** MARCH AFB, CA (AF) | | |
| SITE 03 | LANDFILL 3 | RI |
| SITE 04 | TCE CONTAMINATION | RI |
| SITE 05 | TCE CONTAMINATION | RI |
| SITE 06 | LANDFILL 6 | RI |
| SITE 09 | FPTA 2 | RI |
| SITE 18 | AIRCRAFT ISO. AREA | RI |
| SITE 21 | BULK FUEL STOR. | RI |
| SITE 22 | WASTE OIL PIT | RI |
| SITE 24 | MAIN OIL/WATER SEPERATION | RI |
| SITE 25 | FLIGHTLINE DRAINAGE | RI |
| SITE 26 | FLIGHT LINE SHOP | RI |
| SITE 27 | CE STOR YD | RI |
| ** MAXWELL AFB, AL (AF) | | |
| SITE FT 01 | FPTA 1 | RI/FS |
| SITE FT 02 | FPTA 2 | RI/FS |
| SITE WP 01 | ELECTROPLATING WASTE DISPOSAL | RI/FS |
| ** MCCORD AFB, WA (AF) | | |
| | NON-SITE LTM | RA |
| SITE 04 | RE EVALUATE GW | RI |
| SITE A 01 | BURIAL PIT | RA |
| SITE A 02 | AMERICAN LAKE GARDENS LANDFILL | RA |
| SITE A 34 | JP 4 SPILL SITES 34 AREA A | RA |
| SITE A 46 | JP 4 SPILL SITES 46 AREA A | RA |
| SITE C 37 | SITE C37 POL SPILL/DISPOSAL | RA |
| SITE C 42 | C42 FUEL SPILL | RA |
| SITE C 57 | LEACH PIT C 57 | RA |
| SITE C 60 | LEACH PIT C 60 | RA |
| SITE C 61 | LEACH PIT C 61 | RA |
| SITE C 62 | C 62 LEACH AREA | RA |
| SITE E 10 | E10 AERATION OF SOIL | RA |
| SITE E 49 | E49 AERATION OF SOIL | RA |
| SITE E 50 | AREA E SITE 50 FUEL SPILL | RA |
| SITE E 51 | E51 AERATION OF SOIL | RA |
| SITE LF 01 | SIMPLE DRUM REMOVAL | RA |
| ** MCCONNELL AFB, KS (AF) | | |
| SITE 01 | SPILL 1 | RI |
| SITE FT 01 | FIRE TRAINING PIT 2 | RI |
| SITE FT 02 | FIRE TRAINING PIT 3 | RI |
| SITE FT 03 | FIRE TRAINING PITS 1&3 | RI |
| SITE LF 01 | MO DISPOSAL SITE | RI |
| SITE LF 02 | LANDFILL 1 | RI |
| SITE LF 03 | LANDFILL 2 | RI |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

| Site Name | Description | Project |
|---------------------------------------|-----------------------------------|---------|
| ** MINN ST. PAUL IAP, MN (AF) | | |
| SITE 05 | POL SPILL AREA | FS |
| SITE 07 | FUEL SPILL AREA | RD |
| SITE 08 | HW STORAGE AREA | FS |
| ** MURPHY DOME AFS, AK (AF) | | |
| SITE DS 01 | WASTE ACCUMULATION AREA 2 | RI |
| SITE DS 02 | WASTE ACCUMULATION AREA 3 | RI |
| SITE LF 01 | LANDFILL 1 | RI |
| SITE LF 02 | LANDFILL 2 | RI |
| SITE OT 01 | ROAD OILING | RI |
| SITE OT 02 | WHITE ALICE | RI |
| SITE SS 01 | WASTE ACCUMULATION AREA 1 | RI |
| ** MYRTLE BEACH AFB, SC (AF) | | |
| SITE SS 01 | FLIGHTLINE CONTAMINATED AREA | RD |
| ** NEWARK AFS, OH (AF) | | |
| SITE AT-1 | ACID STORAGE TANK | RI |
| SITE SP 1 | BATTERY ACID AND SOLVENT SPILL | RI |
| SITE SP-3 | FREON SPILL, SW OF BLDG 4 | RI |
| SITE SP 4 | FREON SPILL, VSYS AND CONTRACTORS | RI |
| ** NIAGARA FALLS IAP, NY (AF) | | |
| SITE DS 02 | BLDG 202 DRUM STORAGE | RI |
| SITE US 04 | HW DRUM STORAGE | RI |
| SITE FT 03 | FPTA 3 | RI |
| SITE LF 01 | LANDFILL | RI |
| SITE LU 01 | 8X MOGAS LEAK | RI |
| SITE OT 01 | BLDG 600 PIPELINE LEAK, JP 4 | RI |
| SITE OT 02 | POL TANK A, JP 4 | RI |
| SITE OT 03 | TANK C, JP 4 LEAK | RI |
| SITE SS 01 | JP 4 TANK TRUCK SPILL | RI |
| ** O'HARE AFB RESERVE, IL (AF) | | |
| SITE 01 | LANDFILL 1 | FS |
| SITE 02 | JP 4 TANK WEST POL AREA | FS |
| SITE 03 | FIRE PROTECTION TRAINING AREA | FS |
| SITE 04 | LANDFILL 2 | FS |
| ** OFFUTT AFB, NE (AF) | | |
| SITE 04 | SPILL SITE 4 | RI |
| SITE DS 01 | HAZARDOUS WASTE YARD | RI |
| SITE FT 01 | FIRE TRAINING PIT 1 | RI |
| SITE FT 02 | FIRE TRAINING PIT 2 | RI |
| SITE FT 03 | FIRE TRAINING PIT 3 | RI |
| SITE LF 01 | LANDFILL 1 | RI |
| SITE LF 02 | LANDFILL 2 | RI |
| SITE LF 03 | LANDFILL 3 | RI |
| SITE LF 04 | LANDFILL 4 | RI |
| SITE LF 05 | LANDFILL 5 | RI |
| SITE OT 01 | LANDFILL 4 | RI |
| SITE OT 02 | LANDFILL 5 | RI |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

| Site Name | Description | Project |
|---------------------------------------|--|---------|
| SITE OT 03 | HARDFILL 6 | RI |
| SITE SS 01 | SPILL SITE 1 | RI |
| ** PATRICK AFB, FL (AF) | | |
| SITE LF 01 | LANDFILL 1 | RA |
| ** PEASE AFB, NH (AF) | | |
| SITE 05 | LANDFILL 5 | RI |
| SITE 12 | MUNITIONS STOR. AND SOLVENT DISP. AREA | RI |
| SITE 13 | BULK FUEL STOR.SPILL | RI |
| SITE 11B | CONSTRUCTION RUBBLE | RI |
| SITE LF 01 | LANDFILL 1 SITE 1 | RI |
| ** PHELPS COLLINS ANG, MI (AF) | | |
| SITE 2 | MULTISITES | RO |
| ** PLATTSBURGH AFB, NY (AF) | | |
| SITE D-4 | LANDFILL, SOUTH OF FPTA | RI |
| SITE SP 1 | JP-4 AND SOLVENT SPILLS APRON | RI |
| SITE SP-6 | JP-4 SPILLS, BLDG 2542 | RI |
| SITE SP-8 | FUEL SPILLS, POL AREA | RI |
| SITE SP-9 | SOLVENT SPILLS, MMS COMPLEX | RI |
| SITE LF 01 | FT-1 FIRE TRAINING AREA | RI |
| SITE SP-10 | JP-4 SPILLS, ALERT AREA | RI |
| ** POPE AFB, NC (AF) | | |
| SITE FT 01 | FPTA-4 | RI |
| SITE LF 01 | HARDFILL 2 | RI |
| SITE LF 02 | HARDFILL 8 | RI |
| SITE SS 01 | POL BULK STORAGE | RI |
| SITE SS 02 | TIRE SHOP WASTE | RI |
| SITE WP 01 | POL SLUDGE DISPOSAL | RI |
| ** RICKENBACKER ANG, OH (AF) | | |
| SITE S-6 | S-6 | RI |
| SITE S-9 | S-9 | RI |
| SITE S-10 | S-10 | RI |
| SITE S-12 | S-12 | RI |
| SITE S-14 | S-14 | RI |
| SITE S-15 | S-15 | RI |
| SITE S-16 | S-16 | RI |
| SITE S-17 | S-17 | RI |
| ** SCOTT AFB, IL (AF) | | |
| SITE FT 01 | FPTA 1 | RI |
| SITE FT 02 | FPTA 2 | RI |
| SITE FT 03 | FPTA 3 | RI |
| SITE LF 01 | LANDFILL | RI |
| SITE SS 01 | FACILITY 1965 SPILL SITE | RI |
| SITE SS 02 | FACILITY 8550 SPILL SITE | RI |
| SITE WP 01 | SLUDGE LAGOON | RI |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

| Site Name | Description | Project |
|---|---------------------------|---------|
| ** SHEMYA AFB, AK (AF) | | |
| SITE 01 | NW WATSHED | RA |
| ** SHEPPARD AFB, TX (AF) | | |
| SITE WP 01 | WASTE PITS | RI/FS |
| ** SMUGGLERS COVE RADIO RELAY, AK (AF) | | |
| SITE 01 | WACS | RA |
| ** SOLDOTNA, AK (AF) | | |
| SITE 1 | WACS | RA |
| ** SPARREVOHN AFS, AK (AF) | | |
| SITE LF 01 | LANDFILL 1 | RI |
| SITE OT 01 | ROAD OILING | RI |
| SITE OT 02 | TRANSMITTER PAD | RI |
| SITE OT 03 | WHITE ALICE SITE | RI |
| SITE SS 02 | SPILL 2 | RI |
| SITE SS 03 | WASTE ACCUMULATION AREA | RI |
| SITE WP 01 | DUMP AREAS | RI |
| ** TATALINA AFS, AK (AF) | | |
| SITE OS 01 | DUMP AREAS | RI |
| SITE OS 02 | WASTE ACCUMULATION AREA 1 | RI |
| SITE OS 03 | WASTE ACCUMULATION AREA 3 | RI |
| SITE OS 04 | WASTE ACCUMULATION AREA 4 | RI |
| SITE LF 01 | LANDFILL 2 | RI |
| SITE LF 02 | WASTE ACCUMULATION AREA 2 | RI |
| SITE OT 01 | ROAD OILING | RI |
| SITE OT 02 | WHITE ALICE SITE | RI |
| SITE SS 01 | SPILL 1, 2, 3, AND 4 | RI |
| SITE SS 05 | SPILL 5 | RI |
| SITE SS 06 | SPILL 6 AND 7 | RI |
| SITE SS 08 | SPILL 8 | RI |
| ** TIM CITY AFS, AK (AF) | | |
| SITE OS 01 | WASTE ACCUMULATION AREA | RI |
| SITE LF 01 | LANDFILL | RI |
| SITE SS 01 | SPILL 1 | RI |
| SITE SS 02 | SPILL 2 | RI |
| SITE WP 01 | DUMP 1 | RI |
| SITE WP 02 | DUMP 2 | RI |
| ** TRAVIS AFB, CA (AF) | | |
| SITE FT 01 | FPTA 1 | RI |
| SITE FT 02 | FPTA 2 | RI |
| SITE FT 03 | FPTA 3 | RI |
| SITE FT 04 | FPTA 4 | RI |
| SITE LF 01 | LANDFILL 1 | RI |
| SITE LF 02 | LANDFILL 2 | RI |
| SITE LF 03 | LANDFILL 3 | RI |
| SITE OT 01 | DISPOSAL SITE 1 | RI |
| SITE OT 02 | DISPOSAL SITE 3 | RI |
| SITE OT 03 | STP SLUDGE DISPOSAL | RI |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY B *

| Site Name | Description | Project |
|---|-----------------------------------|---------|
| SITE SS 01 | JP-4 SPILL | RI |
| SITE SS 02 | OLD SPILLAGE | RI |
| SITE SS 03 | SOLVENT SPILL | RI |
| SITE SS 04 | OIL SPILL | RI |
| SITE WP 01 | STP INACTIVE OXIDATION POND | RI |
| ** TYNDALL AFB, FL (AF) | | |
| SITE 06 | SEWAGE PLANT LANDFILL | RA/RO |
| SITE 07 | SPRAY FIELD LANDFILL | RA/RO |
| ** USAF ACADEMY, CO (AF) | | |
| SITE LF 01 | LANDFILL-FARRISH | RI |
| SITE SS 01 | JP-4 SPILL | RI |
| SITE WP 02 | DREDGE DISPOSAL SITE-FARRISH | RI |
| ** VANDENBERG AFB, CA (AF) | | |
| SITE LF 03 | LANDFILL 2 | RO |
| ** WAKE ISLAND AIRFIELD, TT (AF) | | |
| SITE 1500 | 1500 LIQUID FUEL STORAGE | RI |
| SITE 1700 | 1700 LIQUID FUEL STORAGE | RI |
| SITE 1800 | 1800 LIQUID FUEL STORAGE | RI |
| SITE FT 01 | AIRFIELD SITE 7 | RI |
| SITE LF 01 | AIRFIELD SITE 10 | RI |
| SITE LU 01 | AIRFIELD SITE 9 | RI |
| SITE OT 01 | AIRFIELD SITE 4 | RI |
| SITE OT 02 | AIRFIELD SITE 5 | RI |
| SITE OT 03 | AIRFIELD SITE 8 | RI |
| SITE OT 04 | AIRFIELD SITE 11 | RI |
| SITE OT 05 | AIRFIELD SITE 12 | RI |
| SITE SS 01 | AIRFIELD SITE 6 | RI |
| SITE SS 02 | AIRFIELD SITE 15 | RI |
| ** WHEELER AFB, MI (AF) | | |
| SITE 03 | CLEAN-UP | RUFS |
| SITE 04 | CLEAN-UP | RUFS |
| ** WHITEMAN AFB, MO (AF) | | |
| SITE FT 01 | FOTA | RI |
| SITE LF 05 | LANDFILL 5 | RI |
| SITE OT 01 | CHLORDANE APPLICATION AREAS | RI |
| SITE WP 01 | PESTICIDE DISPOSAL AREA | RI |
| SITE WT 01 | SODIUM CHROMATE TREATMENT AT WTP | RI |
| ** WILLIAMS AFB, AZ (AF) | | |
| SITE 20 | FT02.SS01 | RUFS |
| SITE OT 02 | SURFACE DRAINAGE SYSTEM SW | RA |
| ** WILLOW GROVE AFB, PA (AF) | | |
| SITE 04 | WASHRACK AREA | RI |
| SITE 05 | WASTE OIL STORAGE AREA, BLOC 4330 | RI |
| SITE 07 | OLD WELL HOUSE | RI |
| SITE OT 01 | HEATING PLANT | RI |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

*** PRIORITY B ***

| Site Name | | Description | Project |
|---------------------------|------|-----------------------------------|---------|
| ** WURTSMITH AFB, MI (AF) | | | |
| SITE | SP-3 | SP-3 FUEL SPILL AT POL STOR. AREA | 8A |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

| Site Name | Priority | Description | Project |
|--|----------|---------------------------------------|---------|
| ** BADGER AAP, MI (ARMY) | | | |
| SITE | 3 | NO LAGOONS AND DRAINAGE DITCH | RI/FS |
| SITE | 4 | ROCKET AREA | RA |
| SITE | 5 | OLD ACID COMPLEX | |
| SITE | 16 | COMPOSTING DEMO | RA |
| ** BLOSSOM POINT FIELD TEST ACTIVITY, MD (ARMY) | | | |
| SITE | 1 | LANDFILL | RI |
| SITE | 3 | LANDFILL | RI |
| SITE | 4 | LANDFILL | RI |
| SITE | 5 | LANDFILL | RI |
| SITE | 6 | LANDFILL | RI |
| SITE | 7 | LANDFILL | RI |
| SITE | 8 | LANDFILL | RI |
| ** CORPUS CHRISTI AD, TX (ARMY) | | | |
| SITE | 1 | HAZARDOUS WASTE DUMP SITE | RA |
| ** DETROIT ARSENAL, MI (ARMY) | | | |
| SITE | 2 | BOUNDARY POL SITE | RU/RA |
| ** DUGWAY PROVING GROUND, UT (ARMY) | | | |
| SITE | 1 | OPEN PITS | RA |
| SITE | 2 | DUMP SITE | |
| ** FORT A.P. HILL, VA (ARMY) | | | |
| SITE | 3 | DIOXIN CLEANUP SITE | RA |
| SITE | 5 | MO POL AREA | RU/FS |
| SITE | 6 | DIRT BRIDGE WAREHOUSE AREA | RU/FS |
| ** FORT BENNING, GA (ARMY) | | | |
| SITE | 1 | CLOSED LANDFILL 1 | RU/FS |
| SITE | 2 | CLOSED LANDFILL 2 | RU/FS |
| SITE | 3 | CLOSED LANDFILL 3 | RU/FS |
| SITE | 4 | CLOSED LANDFILL 4 | RU/FS |
| SITE | 5 | CLOSED LANDFILL 5 | RU/FS |
| SITE | 6 | CLOSED LANDFILL 6 | RU/FS |
| ** FORT CAMPBELL, KY (ARMY) | | | |
| SITE | 1 | CAMPBELL AIR FIELD | RU/FS |
| ** FORT DRUM, NY (ARMY) | | | |
| SITE | 1 | BLOC 1595 FUEL DISPENSING SPRING AREA | RU/FS |
| SITE | 2 | CLEANUP AT OLD SANITARY LANDFILL | RU/RA |
| SITE | 3 | MONITORING | RI |
| ** FORT EUSTIS, VA (ARMY) | | | |
| SITE | 1 | HELICOPTER MAINTENANCE AREA | RU/FS |
| SITE | 3 | SEVERAL OLD LANDFILLS | RU/FS |
| ** FORT MCCLELLAN, AL (ARMY) | | | |
| SITE | 4 | RANGE T 24A | RU/FS |
| SITE | 5 | RANGE T 38 | RU/FS |
| SITE | 6 | RANGE 1 | RU/FS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

| Site Name | | Description | Project |
|--------------------------------------|----|--|---------|
| SITE | 7 | RANGE J | RVFS |
| SITE | 8 | RANGE L | RVFS |
| SITE | 9 | RANGE K | RVFS |
| SITE | 10 | FORMER LANDFILL | RVFS |
| SITE | 11 | FORMER LANDFILL | RVFS |
| SITE | 12 | FORMER LANDFILL | RVFS |
| ** FORT MEADE, MD (ARMY) | | | |
| SITE | 2 | OPERATING LANDFILL | RVFS |
| ** FORT POLK, LA (ARMY) | | | |
| SITE | 1 | OLD LANDFILL | RVFS |
| SITE | 2 | OLD LANDFILL | RVFS |
| SITE | 3 | OLD LANDFILL | RVFS |
| SITE | 4 | OLD LANDFILL | RVFS |
| SITE | 5 | OLD LANDFILL | RVFS |
| SITE | 6 | OLD LANDFILL | RVFS |
| SITE | 7 | OLD LANDFILL | RVFS |
| SITE | 8 | OLD LANDFILL | RVFS |
| SITE | 9 | S. FORT FIREFIGHTER PIT-N | RVFS |
| SITE | 10 | DPOO AREA | RVFS |
| ** FORT WAINWRIGHT, AK (ARMY) | | | |
| SITE | 2 | OLD DRUM STORAGE AREA | RVFS |
| SITE | 3 | FAMILY HOUSING AREA | RVFS |
| SITE | 4 | COAL PILE | RVFS |
| ** HAWTHORNE AAP, NV (ARMY) | | | |
| SITE | 1 | TEST RANGE | RVFS |
| SITE | 3 | SURFACE IMPOUNDMENT AREA 101 | RVFS |
| SITE | 5 | MUSTARD GAS DISPOSAL AREA | RVFS |
| SITE | 6 | SURFACE IMPOUNDMENT AREA 103 | |
| SITE | 7 | TEST RANGE | RVFS |
| SITE | 8 | OLD BOMB AREA | RVFS |
| SITE | 9 | OB/OO AREA | RVFS |
| ** NOLSTON AAP, TN (ARMY) | | | |
| SITE | 1 | NITRATE POND 3 | RVFS |
| SITE | 2 | BURNING GROUND | RVFS |
| SITE | 3 | B LINE POND | RVFS |
| SITE | 4 | AREA A FLY ASH POND | RVFS |
| SITE | 5 | TAR SITE | RVFS |
| ** KANSAS AAP, KS (ARMY) | | | |
| SITE | 1 | LAP DEMOLITION AND LANDFILL | RVFS |
| ** LONGHORN AAP, TX (ARMY) | | | |
| SITE | 2 | BURNING GROUND NO 3 | RVFS |
| SITE | 3 | UNLINED EVAPORATION POND | RA |
| ** LOUISIANA AAP, LA (ARMY) | | | |
| SITE | 3 | CADMIUM WASTE POND/DWTS RETENTION POND | RA |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

| Site Name | | Description | Project |
|---|----|-----------------------------|---------|
| ** MATERIALS TESTING LABORATORY, MA (ARMY) | | | |
| SITE | 1 | BLDG 312 BE & U LABS | RI/FS |
| SITE | 2 | BLDG 43 & FNDR SHOP | RI/FS |
| SITE | 3 | ORGAN MATER LAB BLDG 39 | RI/FS |
| SITE | 4 | ORGAN MATER LAB BLDG 292 | RI/FS |
| SITE | 5 | ORGAN MATER LAB BLDG 97 | RI/FS |
| SITE | 6 | BLDG 221 | RI/FS |
| SITE | 7 | METALS & CERAM. BLDG 313 | RI/FS |
| SITE | 8 | BLDG 214 | RI/FS |
| SITE | 9 | BLDG 72 | RI/FS |
| SITE | 10 | RADIOACTIVE STOR. BLDG 39 | RI/FS |
| SITE | 11 | BLDG 243 | RI/FS |
| SITE | 12 | BLDG 97 | RI/FS |
| SITE | 13 | BLDG 311 | RI/FS |
| SITE | 14 | I W DISCHARGE TO SEWER | RI/FS |
| SITE | 15 | BLDG 71 | RI/FS |
| SITE | 16 | AREA 241 BERYLLIUM WASTES | RI/FS |
| SITE | 17 | PARDING AREA RUNOFF | RI/FS |
| SITE | 18 | BLDG 292 | RI/FS |
| SITE | 19 | BLDG METAL CLEANING SITE | RI/FS |
| ** MILITARY OCEAN TERMINAL, BAYONNE, NJ (ARMY) | | | |
| SITE | 1 | LANDFILL | RI/FS |
| SITE | 3 | VEHICLE MAINTANENCE AREA | RI/FS |
| SITE | 4 | UNDERGROUND STOR TANK | RI/FS |
| SITE | 5 | UNDERGROUND STOR TANKS | RI/FS |
| SITE | 6 | UNDERGROUND STOR TANKS | RI/FS |
| SITE | 7 | UNDERGROUND STOR TANKS | RI/FS |
| SITE | 8 | UNDERGROUND STOR TANKS | RI/FS |
| SITE | 9 | UNDERGROUND STOR TANKS | RI/FS |
| SITE | 10 | UNDERGROUND STOR TANKS | RI/FS |
| SITE | 11 | UNDERGROUND STOR TANKS | RI/FS |
| SITE | 12 | UNDERGROUND STOR TANKS | RI/FS |
| SITE | 13 | UNDERGROUND STOR TANKS | RI/FS |
| SITE | 14 | UNDERGROUND STOR TANKS | RI/FS |
| SITE | 15 | UNDERGROUND STORAGE TANKS | RI/FS |
| SITE | 16 | UNDERGROUND STOR TANKS | RI/FS |
| ** McALESTER AAP, OK (ARMY) | | | |
| SITE | 1 | SURFACE WATER | RI/FS |
| ** MATICK RAD COMMAND, MA (ARMY) | | | |
| SITE | 1 | FIRE PIT AREA | RA |
| ** NAVAJO ADA, AZ (ARMY) | | | |
| SITE | 1 | AWARD WASHOUT LAGOON | RA |
| ** NEW CUMBERLAND AD, PA (ARMY) | | | |
| SITE | 1 | EASTERN DISTRIBUTION CENTER | RA |
| SITE | 3 | SOLVENT TANK T 930 | RA |
| ** NEWPORT AAP, IN (ARMY) | | | |
| SITE | 1 | BURNING GROUND | RI/FS |
| SITE | 2 | RED WATER ASH LAGOONS (3) | RI/FS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

| Site Name | | Description | Project |
|---|----|------------------------------|---------|
| SITE | 3 | GYPSUM SLUDGE BASINS | RVFS |
| SITE | 4 | RETENTION POND | RVFS |
| ** PICATINNY ARSENAL, NJ (ARMY) | | | |
| SITE | 1 | GUN COTTON PIPELINE | RA |
| SITE | 2 | BLDG 24 | RVFS |
| SITE | 5 | BLDG 95 | RVRA |
| SITE | 7 | HAZARDOUS WASTE PILE | RA |
| ** PINE BLUFF ARSENAL, AR (ARMY) | | | |
| SITE | 1 | BZ FACILITY | RVFS |
| ** PRESIDIO OF MONTEREY, CA (ARMY) | | | |
| SITE | 1 | DUMP 1 | RVRA |
| ** RAVENNA AAP, OH (ARMY) | | | |
| SITE | 11 | INACTIVE BG AREA | RVFS |
| ** SENECA AD, NY (ARMY) | | | |
| SITE | 1 | DEMOLITION GROUNDS PAD G | RA |
| ** SIERRA AD, CA (ARMY) | | | |
| SITE | 1 | HONEY LAKE | RVFS |
| SITE | 2 | DISPOSAL PIT | RVFS |
| SITE | 3 | AMMO WASHOUT LAGOON | RA |
| SITE | 4 | ABANDON DEMOLITION GROUNDS | RVFS |
| SITE | 5 | UNK(INSTALL WELLS) | RVFS |
| ** SUNFLOWER AAP, KS (ARMY) | | | |
| SITE | 1 | RA CLASS YARD | RVFS |
| SITE | 2 | POND A | RVFS |
| SITE | 3 | POND B | RVFS |
| SITE | 4 | RYOTT'S POND | RVFS |
| SITE | 5 | STATIC ROCKET TEST AREA | RVFS |
| SITE | 6 | CANNON RANGE | RVFS |
| SITE | 7 | CHROMATE AREA | RVFS |
| SITE | 8 | LANDFILL | RVFS |
| SITE | 9 | OLD EXPLOSIVE BURN AREA | RVFS |
| SITE | 10 | LEAD RECOVERY AREA | RVFS |
| SITE | 11 | CONTAM MATER BURNING GROUNDS | RVFS |
| SITE | 12 | F LINE PASTE AREA, N POND | RVFS |
| SITE | 13 | CAPTAIN CREEK | RVFS |
| SITE | 14 | KILL CREEK | RVFS |
| SITE | 15 | SPOOL CREEK | RVFS |
| ** TOBYHANNA AD, PA (ARMY) | | | |
| SITE | 1 | OLD SUBSTATION | RA |
| SITE | 2 | OL STORAGE AREA | RA |
| SITE | 3 | BLDG 701 | RA |
| SITE | 4 | BLDG 15 | RA |
| ** VOLUNTEER AAP, TN (ARMY) | | | |
| SITE | 2 | MONITORING, SOURCE CONTROL | RVFS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

| Site Name | Description | Project |
|---|-----------------------------|---------|
| ** WOODBRIDGE RESEARCH FACILITY, VA (ARMY) | | |
| SITE 2 | PCB BURIAL SITE | P-RA |
| | | |
| | | |
| | | |
| ** CBC PORT HUENEME, CA (NAVY) | | |
| SITE 12 | CEC PCB SPILLS | RVFS |
| SITE 13 | MUSE PCB SPILL | RVFS |
| SITE 15 | TRANSFORMER STOR. | RVFS |
| SITE 17 | HW MAG. | RVFS |
| ** MCAGCC 29 PALMS, CA (NAVY) | | |
| SITE 1 | TRANSFORMER SPILL AREA | RVFS |
| SITE 11 | RUST PROOFING SPILL AREA | RVFS |
| SITE 18 | CRASH TRAINING PIT 18 | RVFS |
| SITE 7 | CRASH TRAINING PIT 2 | RVFS |
| SITE 8 | CRASH TRAINING PIT 3 | RVFS |
| SITE 10 | EVAPORATION PONDS | RVFS |
| SITE 14 | LANDFILL 1 | RVFS |
| SITE 16 | LANDFILL 3 | RVFS |
| ** MCAS EL TORO, CA (NAVY) | | |
| SITE 9 | CRASH CREW PIT NOL | RVFS |
| SITE 11 | TRANSFORMER STOR. AREA | RVFS |
| SITE 14 | BATTERY ACID DISP PIT | RVFS |
| SITE 16 | CRASH CREW PIT NO 2 | RVFS |
| ** MCAS YUMA, AZ (NAVY) | | |
| SITE 7 | FIRE SCHOOL | RVFS |
| SITE 9 | SE SEWAGE LAGOON | RVFS |
| SITE 13 | SOIL REMOVAL AREA | RA |
| ** MCB CAMP LEJEUNE, NC (NAVY) | | |
| SITE 35 | CAMP GINGER AREA FUEL FARM | RVFS |
| SITE 36 | CAMP GINGER AREA DUMP | RVFS |
| ** MAB CORONADO, CA (NAVY) | | |
| SITE 2 | OLD REFUSE DISP/BURN AREA | RVFS |
| SITE 6 | FIRE FIGHTING TRAINING AREA | RVFS |
| SITE 8 | OILED AREAS | RVFS |
| ** MAB LITTLE CREEK, VA (NAVY) | | |
| SITE 11 | SCHOOL OF MUSIC PLAYING | RVFS |
| ** NAOC WARMINSTER, PA (NAVY) | | |
| SITE 9 | STOCKPILE | RVFS |
| ** NAS ADAX, AK (NAVY) | | |
| SITE 32 | TANK FARM & FUEL LEAK | RVFS |
| SITE 10 | PALEADES LAKE PCB SPILL | RVFS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

| Site Name | | Description | Project |
|-------------------------------|----|---------------------------------|---------|
| SITE | 11 | PALISADES LAKE LANDFILL | RI/FS |
| SITE | 15 | OLD HW STOR. | RI/FS |
| SITE | 16 | FIRE TRAINING AREA | RI/FS |
| SITE | 17 | POWER PLNT WASTE OIL | RI/FS |
| SITE | 20 | WHITE ALICE CREEK DISP. | RI/FS |
| SITE | 21 | WHITE ALICE CREEK DISP. | RI/FS |
| SITE | 22 | WHITE ALICE PCB SPILL | RI/FS |
| SITE | 23 | HEART LAKE DRUM DISP. AREA | RI/FS |
| SITE | 24 | ROBERTS DRUM/SLUDGE DISP | RI/FS |
| SITE | 25 | ROBERTS LANDFILL | RI/FS |
| SITE | 26 | MITT LAKE DRUM DISP. | RI/FS |
| SITE | 27 | LAKE LEONE DRUM DISP. | RI/FS |
| SITE | 28 | LAKE BETTY DRUM DISP. | RI/FS |
| SITE | 30 | MAG. 4 LNDFL | RI/FS |
| ** NAS AGANA, GU (NAVY) | | | |
| SITE | 1 | SANITARY LANDFILL | RI/FS |
| SITE | 2 | DRAIN BASIN HOLD PIT | RI/FS |
| SITE | 8 | FINEGAYAN LANDFILL 1 | RI/FS |
| SITE | 9 | FINEGAYAN LANDFILL 2 | RI/FS |
| ** NAS ALAMEDA, CA (NAVY) | | | |
| SITE | 7 | BLDG 360 | RI/FS |
| ** NAS CHASE FIELD, TX (NAVY) | | | |
| SITE | 3 | OLD FIRE FIGHTING TRAINING AREA | RI/FS |
| ** NAS KEY WEST, FL (NAVY) | | | |
| SITE | 1 | TRUMAN ANNEX DISP AREA | RI/FS |
| SITE | 3 | TRUMAN ANNEX DOT MIXING AREA | RI/FS |
| SITE | 4 | BOCA CHUCA OPEN DISP AREA | RI/FS |
| SITE | 5 | BOCA CHUCA DOT MIXING ARE. | RI/FS |
| ** NAS KINGSVILLE, TX (NAVY) | | | |
| SITE | 1 | SEWAGE TREATMENT PLANT LNDFL | RI/FS |
| SITE | 2 | AVGAS FUEL FARM N | RI/RA |
| SITE | 3 | TRANS WTR POOL | RI/FS |
| SITE | 6 | FIRE FIGHTING TRAINING AREA | RI/FS |
| SITE | 8 | LANDFILL | RI/FS |
| SITE | 10 | WASTE POL/SOLVENT DISP | RI/FS |
| ** NAS LEMOORE, CA (NAVY) | | | |
| SITE | 2 | BLDG 152 PEST RINSE | RI/FS |
| SITE | 3 | BLDG 50 PEST RINSE | RI/FS |
| SITE | 4 | OLD FIRE TRAINING AREA | RI/RA |
| SITE | 3 | FIRE FIGHTING SCHOOL | RI/FS |
| SITE | 7 | HOUSING AREA OPEN DITCH | RI/FS |
| SITE | 9 | IND. TREATMENT SLUDGE PONDS | RI/RA |
| SITE | 11 | BLDG J TRANSFORMER SPILL | RI/FS |
| SITE | 12 | BLDG 268 TRANSFORMER SPILL | RI/FS |
| SITE | 13 | TRANSFORMER STORAGE AREA | RI/FS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

| Site Name | | Description | Project |
|---|----|----------------------------------|---------|
| ** NAS MEMPHIS, TN (NAVY) | | | |
| SITE | 8 | CEMETERY DISP. | RVFS |
| ** NAS MIRAMAR, CA (NAVY) | | | |
| SITE | 4 | FIRE FIGHTING DRILL FIELDS | RVFS |
| ** NAS NEW ORLEANS, LA (NAVY) | | | |
| SITE | . | FIRE FIGHTING TRAINING AREA | RVFS |
| SITE | 6 | FUEL TANK STRIPPING BURN AREA | RVFS |
| SITE | 9 | LNOFL AT B 704 | RVFS |
| ** NAS NORTH ISLAND, CA (NAVY) | | | |
| SITE | . | SHORELINE SEDIMENTS | RVFS |
| SITE | . | GOLF COURSE GARAGE DISP | RVFS |
| SITE | . | HERITAGE PARK PW YARD | RVFS |
| SITE | 9 | CHEM. WASTE DISPOSAL AREA | RVFS |
| SITE | 10 | PROPERTY DISPOSAL AREA | RVFS |
| ** NAS OCEANA, VA (NAVY) | | | |
| SITE | 1 | WEST WOODS OIL DISP PIT | RVFS |
| SITE | 7 | FIFTH GREEN | RVFS |
| SITE | 8 | N. STATION LNOFL | RVFS |
| ** NAS PATUXENT RIVER, MD (NAVY) | | | |
| SITE | 1 | FISHERY PT LNOFL | RVFS |
| SITE | 2 | DISP NEAR POND 1 | RVFS |
| SITE | 6 | STOR AREA FUEL FARM | RVFS |
| SITE | 15 | 01111/180 FORMER WASHRACK | RVFS |
| SITE | 17 | PEST CONTROL B 841 | RVFS |
| SITE | 28 | TRANSFORMER STORAGE B516 | RVFS |
| SITE | 29 | B 306/CARBON TETRA CHLORIDE | RVFS |
| ** NAS WHIDBEY ISLAND, WA (NAVY) | | | |
| SITE | 4 | WALKER BARN STORAGE AREA | RVFS |
| SITE | 5 | HIGHWAY 20/HOFFMAN ROAD LANDFILL | RVFS |
| ** NAS WILLOW GROVE, PA (NAVY) | | | |
| SITE | 2 | ANTENNA FIELD LNOFL | RVFS |
| SITE | 5 | FIRE TRAINING AREA | RVFS |
| ** NHC NEWPORT, RI (NAVY) | | | |
| SITE | 17 | GOULD ISLAND ELECTROPLATING | RVFS |
| ** NLS LOUISVILLE, KY (NAVY) | | | |
| SITE | 4 | NW CORNER LIQUID DISP AREA | RVFS |
| ** NMTF DRIVER, VA (NAVY) | | | |
| SITE | 1 | LANDFILL | RVFS |
| SITE | 5 | PCB SPILL | RVFS |
| SITE | 8 | SERVICE STATION GAS LEAK | RVFS |
| ** NS MAYPORT, FL (NAVY) | | | |
| SITE | 4 | LNOFL D | RVFS |
| SITE | 5 | LNOFL E | RVFS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

| Site Name | Description | Project |
|--|--------------------------------|---------|
| SITE 6 | LNDFL F | RI/FS |
| ** NS ROOSEVELT ROADS, PR (NAVY) | | |
| SITE 2 | MANGROVE DISP. SITE | RI/FS |
| SITE 3 | IRRNA/MAF-4 DISP SITE | RI/FS |
| SITE 5 | ARMY CREMATOR DISP AREA | RI/FS |
| SITE 6 | LANGLEY DR DISP. AREA | RI/FS |
| SITE 8 | DRONE WASHDOWN | RI/FS |
| ** NSB BANGOR, WA (NAVY) | | |
| SITE 5 | METALLURGY FAC RUBBLE | RI/FS |
| ** NSB SAN DIEGO, CA (NAVY) | | |
| SITE 3 | NSC-PLA OIL DISP PITS | RI/FS |
| SITE 4 | NSC-PLA TANK BOTTOMS | RI/FS |
| SITE 5 | NOSC N. COAST DISP | RI/FS |
| SITE 10 | NOSC SLUDGE DISP | RI/FS |
| SITE 13 | DRUM DISPOSAL AREA | RI/FS |
| SITE 16 | DEGAUSSING P. TABLE DISP. | RI/FS |
| ** NSC CHEATHAM ANX WILLIAMSBURG, VA (NAVY) | | |
| SITE 1 | LANDFILL NEAR INCINERATOR | RI/FS |
| SITE 10 | D. CON AGNT DISP NEAR 1ST | RI/FS |
| SITE 14 | TANK BOTT. | RI/FS |
| SITE 16 | TANK BOTT. | RI/FS |
| SITE 17 | TANK BOTT. | RI/FS |
| SITE 18 | TANK BOTT. | RI/FS |
| SITE 22 | TANK BOTT. | RI/FS |
| SITE 23 | TANK BOTT. | RI/FS |
| SITE 24 | TANK BOTT. | RI/FS |
| SITE 25 | TANK BOTT. | RI/FS |
| ** NSC NORFOLK, VA (NAVY) | | |
| SITE 1 | BALLAST DISP LAGOONS | RI/FS |
| SITE 2 | OILY SLUDGE LANDSPREAD | RI/FS |
| SITE 3 | OILY SLUDGE PIT | RI/FS |
| SITE 4 | WASTE OIL DRUM STORAGE AREA | RI/FS |
| ** NSY CHARLESTON, SC (NAVY) | | |
| SITE 8 | CAUSTIC PIT | RI/FS |
| ** NSY HUNTER'S POINT, CA (NAVY) | | |
| SITE 6 | OLD TRANSFORMER STOR YD | RI/FS |
| ** NSY PHILADELPHIA, PA (NAVY) | | |
| SITE 3 | TRANSFORMER STOR AREA B 825 | RI/FS |
| SITE 6 | SUBSTATION 82 TRANSF OIL SPILL | RI/FS |
| SITE 7 | B 546-PCB TRANSFORMER SPILL | RI/FS |
| ** NSY FUGET SOUND, WA (NAVY) | | |
| SITE 6 | CONTAMINATED DREDGE MATERIAL | RA |
| ** NTC GREAT LAKES, IL (NAVY) | | |
| SITE 1 | GOLF COURSE LNDFL | RI/FS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

| Site Name | | Description | Project |
|----------------------------------|----|----------------------------------|---------|
| SITE | 4 | FIRE FIGHTING TRAINING AREA | RI/FS |
| SITE | 5 | TRANSFORMER STOR. "BONEYARD" | RI/FS |
| SITE | 6 | MAINSIDE TRANSFORMER STOR. | RI/RA |
| ** NTC SAN DIEGO, CA (NAVY) | | | |
| SITE | 2 | BLDG 227 UNDERGRND TANK | RI/FS |
| SITE | 5 | BLDG 352 UNDERGRND TANK | RI/FS |
| ** NWC CHINA LAKE, CA (NAVY) | | | |
| SITE | 3 | ARMITAGE FIELD LEACH POND | RI/RA |
| SITE | 7 | MICHELSON LAB DRAINAGE | RI/RA |
| SITE | 12 | SHORT RD LNDFL | RI/RA |
| SITE | 12 | SHORT ROAD LNDFL | RI/RA |
| SITE | 13 | OILY WASTE DISP. AREA | RI/RA |
| SITE | 14 | ER RANGE SEPTIC SYS | RI/RA |
| SITE | 15 | R RANGE SEPTIC SYS | RI/FS |
| SITE | 16 | G-1 RANGE SEPTIC SYS | RI/FS |
| SITE | 17 | G-2 RANGE SEPTIC SYS | RI/FS |
| SITE | 22 | PILOT PLANT RD | RI/FS |
| SITE | 27 | NAF DISP. AREA | RI/FS |
| SITE | 31 | PW PESTICIDE RINSE AREA | RI/FS |
| SITE | 32 | GOLF COURSE PESTICIDE RINSE | RI/FS |
| SITE | 34 | LAURITSEN ROAD LANDFILL | RI/RA |
| ** NWICP DALLAS, TX (NAVY) | | | |
| SITE | 4 | FORMER ACID NEUT PIT | RI/FS |
| SITE | 5 | IWC PIPELINE LEAK | RI/FS |
| SITE | 6 | FORMER REFUSE BURN PIT | RI/FS |
| SITE | 9 | FIREBRICK BURIAL SITE | RI/FS |
| ** NWS SEAL BEACH, CA (NAVY) | | | |
| SITE | 19 | BLDG 241 DISP PIT | RI/FS |
| ** NWS YORKTOWN, VA (NAVY) | | | |
| SITE | 11 | ABANDONED EXPLOSIVES BURNING PIT | RI/FS |
| SITE | 19 | CONVEYOR BELT SOILS AT BLDG 10 | RI/FS |
| ** NWSC CRANE, IN (NAVY) | | | |
| SITE | 2 | MCCORMISH GROVE | RI/FS |
| SITE | 5 | PESTICIDE SHOP 5-2189 | RI/FS |
| SITE | 6 | ROADS AND GROUNDS AREA | RI/FS |
| SITE | 14 | MINE FILL A AND B | RI/FS |
| SITE | 15 | ROCKEYE | RI/FS |
| ** SPCC MECHANICSBURG, PA (NAVY) | | | |
| SITE | 4 | RADIOACTIVE WASTE DISP | RI/FS |
| SITE | 5 | GOLF COURSE LANDFILL | RI/FS |
| | | | |
| | | | |
| | | | |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

| Site Name | | Description | Project |
|--|-------|-------------------------------------|---------|
| ** AFP NO.38, NY (AF) | | | |
| SITE | S1 | S1 | RA |
| SITE | S2 | S2 | RA |
| SITE | S3 | S3 | RA |
| SITE | S4 | S4 | RA |
| ** AFP NO.42, PALMDALE, CA (AF) | | | |
| SITE | 1-1 | ENGINE RUN-UP AREA | RI |
| SITE | 2-2 | PAINT WASTE DISPOSAL AREA | RI |
| SITE | 2-3 | PAINT WASTE DISPOSAL AREA | RI |
| SITE | 2-4 | ABANDONED DISPOSAL AREA | RI |
| SITE | 2-5 | DISPOSAL AREA | RI |
| SITE | 2-6 | DISPOSAL AREA | RI |
| SITE | 2-8 | ENGINE RUN-UP AREA | RI |
| SITE | 3-1 | ENGINE RUN-UP AREA | RI |
| SITE | 3-2 | EVAPORATION PONDS | RI |
| SITE | 4-1 | FUEL TRANSFER AREA | RI |
| SITE | 5-2 | FUEL DISPOSAL AREA | RI |
| SITE | 6-1 | ENGINE RUN-UP AREA | RI |
| SITE | C-2 | NEW FDTA | RI |
| SITE | C-3 | LANDFILL | RI |
| SITE | 2-10 | DISPOSAL AREA | RI |
| SITE | 2-11 | NOISE LEVEL AREA | RI |
| SITE | 2-12 | TEB DISPOSAL AREA | RI |
| ** AFP NO.59, JOHNSON CITY, NY (AF) | | | |
| SITE | S1 | S1 | RI/FS |
| SITE | S2 | S2 | RI/FS |
| SITE | S3 | S3 | RI/FS |
| ** AFP NO.70, FOLSOM, CA (AF) | | | |
| SITE | 01 | DRUM STORAGE AREA | PA/SI |
| ** AFP NO.78, CORINNE, UT (AF) | | | |
| SITE | S 01 | S1 | RI/FS |
| SITE | S 02 | S2 | RI/FS |
| SITE | S 03 | S3 | RI/FS |
| SITE | S 04 | S4 | RI/FS |
| SITE | OT 01 | FRENCH DITCH | RI/FS |
| SITE | OT 03 | X O MAT WASTEWATER DISCHARGE AREA 1 | RI/FS |
| SITE | OT 04 | X O MAT WASTEWATER DISCHARGE AREA 2 | RI/FS |
| ** AFP NO.83, ALBUQUERQUE, NM (AF) | | | |
| SITE | S1 | S1 | RI/FS |
| SITE | S2 | S2 | RI/FS |
| SITE | S3 | S3 | RI/FS |
| SITE | S4 | S4 | RI/FS |
| SITE | S5 | S5 | RI/FS |
| ** AFP NO.85, COLUMBUS, OH (AF) | | | |
| SITE | 02 | COAL PILE LEACHATE SITE | RI/FS |
| SITE | 3&9 | NE BLOG FUEL TANK | RI/FS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

| Site Name | Description | Project |
|--------------------------------------|--------------------------------------|---------|
| ** ANDERSEN AFB, GU (AF) | | |
| SITE 05 | RMW CENTRAL SOIL | RD |
| SITE DS 02 | DRUM STORAGE AREA | RA/RD |
| ** BARKSDALE AFB, LA (AF) | | |
| SITE WP 12 | POL FLIGHT LINE TANK SLUDGE DISPOSAL | RI |
| ** BEALE AFB, CA (AF) | | |
| SITE 06 | DISCHARGE AREA 3 | RI |
| SITE 07 | LANDFILL 2 | RI |
| SITE 08 | DISCHARGE AREA 4 | RI |
| SITE 09 | DISCHARGE AREA 6 | RI |
| SITE 10 | DISCHARGE AREA 9 | RI |
| SITE 11 | DISCHARGE AREA 5 | RI |
| SITE 12 | DISCHARGE AREA 7 | RI |
| SITE 13 | DISCHARGE AREA 10 | RI |
| SITE 15 | DISCHARGE AREA 8 | RI |
| SITE 16 | LANDFILL 3 | RI |
| SITE DS 01 | BEST SLOUGH | RI |
| SITE LU 01 | POL TANK FARM | RV/RD |
| SITE OT 01 | ORDINANCE DISPOSAL | RI |
| ** BELLOWS AFS, HI (AF) | | |
| SITE LF 02 | LANDFILL WW II SHOP AREA | RI |
| SITE OT 01 | SHOP AREA SEPTIC TANK | RI |
| ** BLYTHEVILLE AFB, AR (AF) | | |
| SITE LF 01 | LANDFILL 1 | RI |
| SITE LF 03 | LANDFILL 3 | RI |
| SITE SS 02 | SPILL/LEAK 2 | RI |
| ** BOLLING AFB, DC (AF) | | |
| SITE 01 | FPTA | RI |
| ** BROOKS AFB, TX (AF) | | |
| SITE FT 01 | FPTA 2 | RI |
| SITE FT 03 | FPTA 3 | RI |
| SITE LF 01 | LANDFILL 1 | RI |
| SITE LF 02 | LANDFILL 2 | RI |
| SITE LF 03 | LANDFILL 3 | RI |
| SITE LF 04 | LANDFILL 4 | RI |
| ** CAMPION AFS, AK (AF) | | |
| SITE DS 01 | WASTE ACCUMULATION 1 | RI |
| SITE LF 02 | LANDFILL 2 | RI |
| SITE OT 01 | WHITE ALICE SITE | RI |
| ** CAPE LISBURN AFS, AK (AF) | | |
| SITE OT 01 | RUNWAY OILING | RI |
| SITE OT 02 | WHITE ALICE SITE | RI |
| ** CAPE NEWENHAM AFS, AK (AF) | | |
| SITE OT 02 | WHITE ALICE SITE | RI |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

| Site Name | Description | Project |
|--------------------------------------|------------------------------|---------|
| ** CAPE ROMANZOF AFS, AK (AF) | | |
| SITE 01 | LRRS SITE | RA |
| SITE OT 02 | WHITE ALICE SITE | RI |
| ** CARSWELL AFB, TX (AF) | | |
| SITE 02 | LANDFILL 2 | RI |
| SITE 03 | LANDFILL 3 | RI |
| SITE 06 | LANDFILL 6 | RI |
| SITE 11 | FTDA 1 | RI |
| SITE 14 | PESTICIDE HINSE AREA | RI |
| ** CASTLE AFB, CA (AF) | | |
| SITE SS 03 | FUEL SPILL 2&3 | RD |
| ** COLD BAY AFS, AK (AF) | | |
| SITE LF 01 | LANDFILL | RI |
| SITE OT 01 | ROAD OILING | RI |
| SITE SS 01 | SPILL | RI |
| ** DOBBINS AFB, GA (AF) | | |
| SITE 03 | FTDA, PRESENT | FS |
| SITE 06 | AVGAS SLUDGE BURIAL | FS |
| SITE 08 | LEADED PAINT BURIAL | FS |
| ** DYESS AFB, TX (AF) | | |
| SITE FT 02 | FIRE TRAINING AREA 2 | RI |
| SITE OT 03 | S. DIVERSION DITCH 1 | RI |
| SITE WP 01 | POL SLUDGE PIT AREA 1 | RI |
| ** EDWARDS AFB, CA (AF) | | |
| SITE 17 | BLDG 1404 LEAKING FUEL TANKS | RA/RD |
| SITE 19 | BLDG 1928 | RD |
| ** EGLIN AFB, FL (AF) | | |
| SITE OT 01 | HERD FACILITY | RA |
| ** EIELSON AFB, AK (AF) | | |
| SITE 04 | OLD ARMY EOD AREA | RI |
| SITE 05 | OLD ARMY LNDFL | RI |
| SITE 06 | OLD LNDFL | RI |
| SITE 14 | E-2 RR | RI |
| SITE 21 | OILING QUARRY RD | RI |
| SITE 22 | OILING IND. DR | RI |
| SITE 23 | OILING MANCHU RD | RI |
| SITE 24 | OILING GRAVEL HAUL RD | RI |
| SITE 25 | FUEL TANK SLUDGE | RI |
| SITE 26 | E-10 FUEL TANK SLUDGE | RI |
| SITE 27 | E-11 FUEL TANK SLUDGE | RI |
| SITE 29 | DRUM BURIAL SITE | RI |
| SITE 34 | SLUDGE DRYING BEDS | RI |
| SITE 42 | MISC. DISP. AREA | RI |
| ** ELLSWORTH AFB, SD (AF) | | |
| SITE SP-1 | PUMPHOUSE NO 7 | RI |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

| Site Name | | Description | Project |
|--|-------|---|---------|
| SITE | LF 02 | LANDFILL 2 | RI |
| SITE | LF 04 | LANDFILL 4 | RI |
| SITE | LF 05 | LANDFILL 5 | RI |
| SITE | LF 06 | LANDFILL 6 | RI |
| SITE | RW 01 | LOW LEVEL RADIOACTIVE WASTE BURIAL SITE | RI |
| SITE | SP 02 | C-9 LF COOLANT SPILL | RI |
| SITE | SP 03 | HYDRANT LINE LEAKS | RI |
| SITE | SP 04 | EOD PRAMITOL SPILL | RI |
| SITE | SP 05 | C-11 LF COOLANT SPILL | RI |
| SITE | SP 06 | N-10 LF COOLANT SPILL | RI |
| ** ELMENDORF AFB, AK (AF) | | | |
| SITE | D4 | DISPOSAL SITE | RI |
| SITE | D-3 | SANITARY LANDFILL | RI |
| SITE | D-7 | SANITARY LANDFILL | RI |
| SITE | S-6 | PCB TRANSFORMER STORAGE | RI |
| SITE | D-13 | DISPOSAL SITE | RI |
| SITE | D-16 | POL SLUDGE DISPOSAL | RI |
| SITE | IS-2 | BLDG 42-425 DRAINS | RI |
| SITE | IS-3 | BLDG 43-550 FLOOR DRAINS | RI |
| SITE | IS-4 | BLDG 43-300 FLOOR DRAINS | RI |
| SITE | IS-5 | BLDG 43-410 FLOOR DRAINS | RI |
| SITE | IS-7 | BLDG 21-900 | RI |
| SITE | SP-1 | DIESEL FUEL LINE LEAK | RI |
| SITE | SP-4 | RAILROAD MAINT. AREA | RI |
| SITE | IS-8 | BLDG 32-060 DRAINS | RI |
| SITE | OT-03 | BLDG 43-450 FLOOR DRAINS | RI |
| SITE | SP-13 | DIESEL FUEL LINE LEAK | RI |
| ** F.E. WARREN AFB, WY (AF) | | | |
| SITE | 03 | SITE 3, BLDG 338 SPILL | RI |
| SITE | 05 | SITE 5, BLDG 336 SPILL | RI |
| SITE | 06 | SITE 6, BLDG 316 SPILL | RI |
| ** GEORGE AFB, CA (AF) | | | |
| SITE | B 08 | PEST. AND PAINT BURIAL | RA/RD |
| SITE | B 09 | ACID AND OIL BURIAL | RA/RD |
| SITE | B 10 | PEST. AND OIL BURIAL | RA/RD |
| SITE | L 01 | BASE LANDFILL | FS |
| SITE | L 02 | DISPOSAL SITE | FS |
| SITE | L 03 | RADIOACTIVE/TOXIC DISPOSAL | FS |
| SITE | L 04 | STARTER CARTRIDGE DISPOSAL ARE | FS |
| SITE | L 11 | STREET SWEEPING DIS. | RA/RD |
| SITE | L 12 | ORIGINAL BASE LANDFILL | RA/RD |
| SITE | L 13 | BASE LANDFILL | RA/RD |
| SITE | M 02 | M-2 MUNITIONS DISP | RD |
| ** GOWEN FIELD (BOISE), ID (AF) | | | |
| SITE | 95 | SITES 1,2,5,6 | RI/FS |
| ** GRAND FORKS AFB, ND (AF) | | | |
| SITE | FT 01 | FIRE TRAINING PIT | RI |
| SITE | LF 01 | LANDFILL AREA | RI |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

| Site Name | | Description | Project |
|--|-------|----------------------------------|---------|
| SITE | MU 01 | EOD AREA | RI |
| ** GREATER PITTSBURGH IAP, PA (AF) | | | |
| SITE | 01 | POL AREA | FS |
| SITE | S 01 | PAST POL AREA | FS |
| SITE | S 02 | CE RUBBLE LANDFILL | FS |
| SITE | DS 01 | DRUM STORAGE BLDG 408 | FS |
| SITE | DS 02 | DRUM STORAGE BLDG 416 | FS |
| SITE | OT 01 | FUEL LINE BREAK BLDG 316 | FS |
| SITE | OT 03 | PCB STORAGE BLDG 342 | FS |
| ** GRIFFISS AFB, NY (AF) | | | |
| SITE | T9 | CONTAMINATED AREA NEAR T9 | RA |
| SITE | B20 | CONTAMINATED AREA NEAR BLDG 20 | RA |
| SITE | B26 | BLDG 26 UST | RA |
| SITE | NP-1 | UT AT NEWPORT AREA | RA |
| SITE | DS 01 | BULK FUEL STORAGE AREA | RD |
| SITE | FT 01 | FPTA | RA/RD |
| ** GRISSOM AFB, IN (AF) | | | |
| SITE | 30 | PH II STUDIES | RI |
| SITE | FT 01 | FTA 1 | RI |
| SITE | FT 02 | FTA 2 | RI |
| SITE | LF 01 | LANDFILL 1 | RI |
| SITE | LF 02 | LANDFILL 2 | RI |
| SITE | OT 01 | SLUDGE WEATHERING SITE | RI |
| SITE | OT 02 | WASTE OIL STORAGE PAD | RI |
| ** HANSCOM AFB, MA (AF) | | | |
| SITE | SS 02 | MERCURY SPILL | RA/RD |
| ** HICKAM AFB, HI (AF) | | | |
| SITE | 01 | HICKAM SITE 1 | RI |
| SITE | 09 | FUEL LEAK | RI |
| SITE | 10 | FUEL LEAK | RI |
| SITE | 11 | FUEL LEAK | RI |
| SITE | 12 | FUEL LEAK | RI |
| SITE | 16 | FUEL LEAK | RI |
| SITE | 17 | FUEL LEAK | RI |
| SITE | 18 | FUEL LEAK | RI |
| SITE | 21 | CANAL STORM DRAINAGE SYSTEM | RI |
| SITE | 22 | KUMUNAU CANAL STORM DRAIN SYSTEM | RI |
| SITE | 23 | MTR POOL STORM DRAIN SYS | RI |
| ** INDIAN MOUNTAIN RESEARCH SITE, AK (AF) | | | |
| SITE | OT 02 | WHITE ALICE SITE | RI |
| ** KILSAWYER, MI (AF) | | | |
| SITE | 01 | POL AREA | RI |
| ** KEESLER AFB, MS (AF) | | | |
| SITE | 01 | LANDFILL 1 | RI |
| SITE | LU 01 | LU01 | RI/FS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

| Site Name | Description | Project |
|---------------------------------------|-------------------------------------|---------|
| ** MINN ST. PAUL IAP, MN (AF) | | |
| SITE 04 | MOGAS SPILL | FS |
| SITE 06 | LIQ. SLUDGE BURIAL PIT | FS |
| SITE P-04 | NAVAL BLDG HTG FUEL SPILL | FS |
| ** NIAGARA FALLS IAP, NY (AF) | | |
| SITE DS 03 | BLDG 850 DRUM STORAGE | RI |
| SITE FT 01 | FPTA 1 | RI |
| SITE FT 02 | FPTA 2 | RI |
| ** NORTON AFB, CA (AF) | | |
| SITE 01 | BURNING LAGOON SITE 17 | RA |
| SITE DS 01 | WASTE DRUM STORAGE 3 | RA |
| ** O'HARE AIR RESERVE, IL (AF) | | |
| SITE RW 01 | LOW LEVEL RADIOACTIVE DISPOSAL SITE | FS |
| ** OFFUTT AFB, NE (AF) | | |
| SITE RW 01 | RADIOACTIVE WASTE SITE | RI |
| SITE SS 02 | SPILL SITE 2 | RI |
| ** PATRICK AFB, FL (AF) | | |
| SITE 03 | CHEMICAL DISPOSAL SITE | RA |
| ** PEASE AFB, NH (AF) | | |
| SITE 02 | LANDFILL 2 | RI |
| SITE 03 | LANDFILL 3 | RI |
| SITE 04 | LANDFILL 4 | RI |
| SITE 06 | LANDFILL 6 | RI |
| SITE 07 | FPTA 1 | RI |
| SITE 10 | FUEL TANK SLUDGE DISP. | RI |
| SITE 14 | ZONE 6 FUEL LINE SPILL | RI |
| SITE 15 | IND. SHOP / PARKING APRON | RI |
| SITE 17 | CONSTR. RUBBLE DUMP 2 | RI |
| SITE 19 | GRAFTON DITCH | RI |
| SITE 20 | NEW FIELD DITCH | RI |
| SITE 21 | MCINTYRE BROOK | RI |
| SITE 11A | FMS EQUIP/ CLEANING | RI |
| ** PLATTSBURGH AFB, NY (AF) | | |
| SITE SP-2 | HEATING FUEL SPILL, BLDG 205 | RI |
| SITE SP-5 | JP-4 SPILL, INSULATION VALVE | RI |
| SITE SP-7 | DPDO FUEL OIL SPILL | RI |
| SITE SP-11 | ENGINE OIL SPILLS, CAPEHART MSG | RI |
| SITE SP-12 | NEW PRODUCT DRUM STORAGE AREA | RI |
| SITE SP-13 | NEW AND USED SOLVENT DRUM STORAGE | RV/RA |
| ** RICKENBACKER ANG, OH (AF) | | |
| SITE 95 | MULTIPLE SITES | FS |
| SITE S-1 | S-1 | RI/FS |
| SITE S-2 | S-2 | RI/FS |
| SITE S-3 | S-3 | RI/FS |
| SITE S-4 | S-4 | RV/FS |
| SITE S-5 | S-5 | RV/FS |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFE SE PRIORITIES LIST**

* PRIORITY C *

| Site Name | Description | Project |
|---|----------------------------------|---------|
| ** SHEPPARD AFB, TX (AF) | | |
| SITE 01 | TELCON MANHOLE 5 | RI/FS |
| SITE FT 01 | FPTA 1 | RI/FS |
| SITE FT 02 | FPTA 3 | RI/FS |
| SITE FT 03 | FPTA 2 | RI |
| SITE LF 01 | LANDFILL #3 AND HARDFILL | RI/FS |
| SITE LF 02 | LANDFILL 1 | RI |
| SITE LF 03 | LANDFILL 2 | RI |
| SITE LU 01 | BLDG 2017 BEA ABANDONED UST | FS |
| SITE LU 02 | BLDG T-35 IEA ABANDONED UST | FS |
| SITE LU 03 | BLDG 990 1 EA ABANDONED UST | FS |
| SITE LU 04 | BLDG 2548 90 EA ABANDONED UST | FS |
| SITE LU 05 | UST BLDG 920 | RI/FS |
| SITE OT 01 | PESTICIDE SPRAY AREA | RI |
| SITE WP 02 | INDUSTRIAL WASTE PIT | RI |
| ** TIN CITY AFS, AK (AF) | | |
| SITE OT 01 | ROAD OILING | RI |
| SITE OT 02 | WHITE ALICE SITE | RI |
| ** TINKER AFB, OK (AF) | | |
| SITE 01 | IWTP TANKS | FS |
| ** USAF ACADEMY, CO (AF) | | |
| SITE FT 01 | FDTA | RI |
| SITE LF 02 | LANDFILL 1 | RI |
| SITE LF 03 | LANDFILL 2 | RI |
| SITE OT 01 | FIRING RANGE | RI |
| SITE OT 02 | WW II DISP. SITE | RI |
| SITE WP 01 | DIGESTED SLUDGE DISP. SITE | RI |
| SITE WP 03 | DREDGED MAT. DISP. SITE | RI |
| ** WAKE ISLAND AIRFIELD, TT (AF) | | |
| SITE 19 | IND. LNOFL. FTA | RI |
| SITE FT-02 | AIRFIELD SITE 13 | RI |
| SITE FT-03 | AIRFIELD SITE 14 | RI |
| ** WHEELER AFB, HI (AF) | | |
| SITE 01 | CLEAN-UP | RI/FS |
| SITE 02 | CLEAN-UP | RI/FS |
| SITE 05 | AIRCRAFT PARKING /WASH RACK | RI |
| SITE 06 | AIRCRAFT PARKING | RI |
| SITE 07 | SANITARY SEWER SYSTEM | RI/FS |
| ** WHITEMAN AFB, MO (AF) | | |
| SITE DS 01 | DRUM STORAGE BLDG 7 9 | RI |
| SITE FT 02 | FPTA 2 | RI |
| SITE LF 01 | LANDFILL 1 | RI |
| SITE LF 02 | LANDFILL 2 | RI |
| SITE LF 03 | LANDFILL 3 | RI |
| SITE LF 04 | LANDFILL 4 | RI |
| SITE LU 01 | FLIGHTLINE UNDERGROUND FUEL TANK | RI |
| SITE OT 02 | STORMWATER DRAINAGE, WASH RACK | RI |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

* PRIORITY C *

| Site Name | | Description | Project |
|---|-------|------------------------------------|---------|
| ** WRIGHT-PATTERSON AFB, OH (AF) | | | |
| SITE | OT 04 | CENTRAL HEATING PLANT 3. BLDG 170 | RI |
| SITE | OT 05 | CENTRAL HEATING PLANT 4. BLDG 1240 | RI |
| SITE | OT 06 | CENTRAL HEATING PLANT 5. BLDG 770 | RI |
| ** WURTSMITH AFB, MI (AF) | | | |
| SITE | D 06 | D 06 LANDFILL NORTH AREA | RI |
| SITE | FT 01 | FT 01.FTA 1 | RI |
| SITE | FT 02 | FT 02.FTA 2 | RI |
| SITE | SP 01 | SP 01.SP 02.SP 03 SP 05 SP 07 | RI |
| SITE | SP 08 | SP 08.SP 09 SP 10.SP 11 SP 12 | RI |
| SITE | SP 14 | SP 14.SP 17.SS 01 | RI |
| | | | |
| | | | |
| | | | |
| ** ODMT MEMPHIS, TN (DEFENSE LOGISTICS AGENCY) | | | |
| SITE | 1 | FIRE RESERVIOR | RI/FS |

APPENDIX C

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

ALASKA

| Site Name | | Description | Project | Priority |
|----------------------------------|-------|---------------------------------------|---------|----------|
| ** FORT WAINWRIGHT (ARMY) | | | | |
| SITE | 2 | OLD DRUM STORAGE AREA | RI/FS | C |
| SITE | 3 | FAMILY HOUSING AREA | RI/FS | C |
| SITE | 4 | COAL PILE | RI/FS | C |
| ** NAS ADAX (NAVY) | | | | |
| SITE | 13 | METALS LNDFL | RI/FS | B |
| SITE | 32 | TANK FARM A FUEL LEAK | RI/FS | C |
| SITE | . | ANDREW LAKE LANDFILL | RI/FS | B |
| SITE | . | EXPLOSIVE ORONANCE CONTAMINATED AREAS | RI/FS | B |
| SITE | 10 | PALISADES LAKE PCB SPILL | RI/FS | C |
| SITE | 11 | PALISADES LAKE LANDFILL | RI/FS | C |
| SITE | 14 | PEST CONTROL DISP. AREA | RI/FS | B |
| SITE | 15 | OLD HW STOR. | RI/FS | C |
| SITE | 16 | FIRE TRAINING AREA | RI/FS | C |
| SITE | 17 | POWER PLNT WASTE OIL | RI/FS | C |
| SITE | 20 | WHITE ALICE CREEK DISP. | RI/FS | C |
| SITE | 21 | WHITE ALICE CREEK DISP. | RI/FS | C |
| SITE | 22 | WHITE ALICE PCB SPILL | RI/FS | C |
| SITE | 23 | HEART LAKE DRUM DISP. AREA | RI/FS | C |
| SITE | 24 | ROBERTS DRUM/SLUDGE DISP | RI/FS | C |
| SITE | 25 | ROBERTS LANDFILL | RI/FS | C |
| SITE | 26 | MITT LAKE DRUM DISP. | RI/FS | C |
| SITE | 27 | LAKE LEONE DRUM DISP | RI/FS | C |
| SITE | 28 | LAKE BETTY DRUM DISP. | RI/FS | C |
| SITE | 29 | FINGER BAY LANDFILL | RI/FS | B |
| SITE | 30 | MAG. 4 LNDFL | RI/FS | C |
| ** CAMPION AFS (AF) | | | | |
| SITE | OS 02 | WASTE ACCUMULATION 2 | RI | B |
| SITE | OS 01 | WASTE ACCUMULATION 1 | RI | C |
| SITE | LF 01 | LANDFILL 1 | RI | B |
| SITE | LF 02 | LANDFILL 2 | RI | C |
| SITE | OT 01 | WHITE ALICE SITE | RI | C |
| SITE | SS 01 | SPILL / LEAK 1 | RI | B |
| ** CAPE LISBURNE AFS (AF) | | | | |
| SITE | LF 01 | LANDFILL 1 | RI | B |
| SITE | OT 01 | RUNWAY OILING | RI | C |
| SITE | OT 02 | WHITE ALICE SITE | RI | C |
| SITE | SS 01 | SPILL 1 | RI | B |
| SITE | SS 02 | SPILL 2 | RI | B |
| SITE | WP 02 | DUMP 2 | RI | B |
| ** CAPE HEWENHAM AFS (AF) | | | | |
| SITE | OS 01 | WASTE ACCUMULATION 3 | RI | B |
| SITE | LF 01 | LANDFILL 1 | RI | B |
| SITE | LF 02 | LANDFILL 2 | RI | B |
| SITE | OT 01 | ROAD OILING | RI | B |
| SITE | OT 02 | WHITE ALICE SITE | RI | C |
| SITE | WP 01 | DUMP AREA | RI | B |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

ALASKA

| Site Name | | Description | Project | Priority |
|----------------------------------|-------|-----------------------------|---------|----------|
| ** CAPE ROMANZOF AFS (AF) | | | | |
| SITE | 01 | LRRS SITE | RA | C |
| SITE | DS 01 | WASTE ACCUMULATION 2 | RI | B |
| SITE | LF 01 | LANDFILL 1 | RI | B |
| SITE | LF 02 | LANDFILL 2 | RI | B |
| SITE | LF 03 | LANDFILL 3 | RI | B |
| SITE | OT 01 | ROAD OILING | RI | B |
| SITE | OT 02 | WHITE ALICE SITE | RI | C |
| SITE | SS 01 | WASTE ACCUMULATION 1 | RI | B |
| SITE | SS 02 | WASTE ACCUMULATION 3 | RI | B |
| SITE | SS 03 | SPILL 3 | RI | B |
| SITE | SS 04 | SPILL 4 | RI | B |
| SITE | WP 01 | DUMP AREAS | RI | B |
| ** COLD BAY AFS (AF) | | | | |
| SITE | LF 01 | LANDFILL | RI | C |
| SITE | OT 01 | ROAD OILING | RI | C |
| SITE | SS 01 | SPILL | RI | C |
| ** EIELSON AFB (AF) | | | | |
| SITE | 02 | OLD BASE LNOFL | RI | B |
| SITE | 03 | CURRENT BASE LNOFL | RI | B |
| SITE | 04 | OLD ARMY EOD AREA | RI | C |
| SITE | 05 | OLD ARMY LNOFL | RI | C |
| SITE | 06 | OLD LNOFL | RI | C |
| SITE | 08 | FOTA (PAST) | RI | B |
| SITE | 09 | FOTA (PRESENT) | RI | B |
| SITE | 10 | E-2 POL STOR. | RI | B |
| SITE | 11 | FUEL SATURATED AREA | RI | B |
| SITE | 13 | E-4 DIESEL FUEL SPILL | RI | B |
| SITE | 14 | E-2 RR | RI | C |
| SITE | 15 | FUEL LINE | RI | B |
| SITE | 16 | MOGAS FUEL SPILL | RI | B |
| SITE | 17 | CANOL PIPELINE SPILL | RI | B |
| SITE | 19 | JP-4 SPILL | RI | B |
| SITE | 20 | REFUELING LOOP | RI | B |
| SITE | 21 | OILING QUARRY RD | RI | C |
| SITE | 22 | OILING IND. DR | RI | C |
| SITE | 23 | OILING MANCHU RD | RI | C |
| SITE | 24 | OILING GRAVEL HAUL RD | RI | C |
| SITE | 25 | FUEL TANK SLUDGE | RI | C |
| SITE | 26 | E-10 FUEL TANK SLUDGE | RI | C |
| SITE | 27 | E-11 FUEL TANK SLUDGE | RI | C |
| SITE | 29 | DRUM BURIAL SITE | RI | C |
| SITE | 32 | SEWAGE TREATMENT SPILL POND | RI | B |
| SITE | 34 | SLUDGE DRYING BEDS | RI | C |
| SITE | 35 | ASPHALT MIXING AREA | RI | B |
| SITE | 36 | DRUM STORAGE SITE | RI | B |
| SITE | 37 | DRUM STORAGE | RI | B |
| SITE | 38 | WASTE POL PIT | RI | B |
| SITE | 39 | ASPHALT LAKE | RI | B |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

ALASKA

| Site Name | Description | Project | Priority |
|--|---------------------------|---------|----------|
| SITE 41 | AUTO HOBBY SHOP | RI | B |
| SITE 42 | MISC. DISP. AREA | RI | C |
| SITE 01 | ORIG. BASE LNDFL | RI | B |
| ** ELMENDORF AFB (AF) | | | |
| SITE 14 | MOGAS SPILL SITE | RI | B |
| SITE 04 | DISPOSAL SITE | RI | C |
| SITE D-3 | SANITARY LANDFILL | RI | C |
| SITE D-7 | SANITARY LANDFILL | RI | C |
| SITE S-6 | PCB TRANSFORMER STORAGE | RI | C |
| SITE D-13 | DISPOSAL SITE | RI | C |
| SITE D-16 | POL SLUDGE DISPOSAL | RI | C |
| SITE D-17 | SHOP WASTE DISPOSAL | RI | B |
| SITE D-5A | SANITARY LANDFILL | RI | B |
| SITE FT-1 | FIRE TAINING AREA | RI | B |
| SITE IS-1 | BLDG 42-400 FLOOR DRAINS | RI | B |
| SITE IS-2 | BLDG 42-425 DRAINS | RI | C |
| SITE IS-3 | BLDG 43-550 FLOOR DRAINS | RI | C |
| SITE IS-4 | BLDG 43-300 FLOOR DRAINS | RI | C |
| SITE IS-5 | BLDG 43-410 FLOOR DRAINS | RI | C |
| SITE IS-7 | BLDG 21-900 | RI | C |
| SITE SP-1 | DIESEL FUEL LINE LEAK | RI | C |
| SITE SP-2 | JP-4 LINE LEAK | RI | B |
| SITE SP-4 | RAILROAD MAINT. AREA | RI | C |
| SITE SP-5 | BULK STORAGE TANK SPILL | RI | B |
| SITE SP-6 | DIESEL FUEL SPILL | RI | B |
| SITE SP-7 | PUMPHOUSE 3 SPILL SITE | RI | B |
| SITE IS-8 | BLDG 32-080 DRAINS | RI | C |
| SITE OT-03 | BLDG 43-450 FLOOR DRAINS | RI | C |
| SITE SP-11 | JP-4 LINE LEAK | RI | B |
| SITE SP-13 | DIESEL FUEL LINE LEAK | RI | C |
| SITE SP-15 | AVGAS SPILL | RI | B |
| ** FORT YUKON AFS (AF) | | | |
| SITE OS 01 | WASTE ACCUMULATION | RI | B |
| SITE LF 01 | LANDFILL 1 | RI | B |
| SITE OT 01 | OIL DISCHARGE | RI | B |
| SITE OT 02 | ROAD OILING | RI | B |
| SITE OT 03 | WHITE ALICE SITE | RI | B |
| ** GALENA AIRPORT (AF) | | | |
| SITE FY 01 | APTA | RI | B |
| SITE SS 01 | SPILL 1 | RI | B |
| SITE SS 02 | SPILL 2 | RI | B |
| SITE SS 03 | SPILL 3 | RI | B |
| SITE SS 04 | POL TANK FARM | RI | B |
| ** INDIAN MOUNTAIN RESEARCH SITE (AF) | | | |
| SITE 9 | SPILLS 1, 3, AND 8 | RI | B |
| SITE OS 01 | DUMP AREAS | RI | B |
| SITE OS 02 | WASTE ACCUMULATION AREA 1 | RI | B |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

ALASKA

| Site Name | | | Description | Project | Priority |
|---|-------|--|---------------------------|---------|----------|
| SITE | DS 03 | | WASTE ACCUMULATION AREA 5 | RI | B |
| SITE | LF 01 | | LANDFILL 1 | RI | B |
| SITE | LF 02 | | LANDFILL 2 | RI | B |
| SITE | LF 03 | | WASTE ACCUMULATION AREA 4 | RI | B |
| SITE | OT 01 | | ROAD OILING | RI | B |
| SITE | OT 02 | | WHITE ALICE SITE | RI | C |
| SITE | SS 02 | | WASTE ACCUMULATION AREA 6 | RI | B |
| SITE | SS 01 | | WASTE ACCUMULATION AREA 3 | RI | B |
| ** MURPHY DOME AFS (AF) | | | | | |
| SITE | DS 01 | | WASTE ACCUMULATION AREA 2 | RI | B |
| SITE | DS 02 | | WASTE ACCUMULATION AREA 3 | RI | B |
| SITE | LF 01 | | LANDFILL 1 | RI | B |
| SITE | LF 02 | | LANDFILL 2 | RI | B |
| SITE | OT 01 | | ROAD OILING | RI | B |
| SITE | OT 02 | | WHITE ALICE | RI | B |
| SITE | SS 01 | | WASTE ACCUMULATION AREA 1 | RI | B |
| ** SHEMYA AFB (AF) | | | | | |
| SITE | 01 | | NW WATSHED | RA | B |
| ** SMUGGLERS COVE RADIO RELAY (AF) | | | | | |
| SITE | 01 | | WACS | RA | B |
| ** SOLDOTNA (AF) | | | | | |
| SITE | 1 | | WACS | RA | B |
| ** SPARREVOHN AFS (AF) | | | | | |
| SITE | LF 01 | | LANDFILL 1 | RI | B |
| SITE | OT 01 | | ROAD OILING | RI | B |
| SITE | OT 02 | | TRANSMITTER PAD | RI | B |
| SITE | OT 03 | | WHITE ALICE SITE | RI | B |
| SITE | SS 02 | | SPILL 2 | RI | B |
| SITE | SS 03 | | WASTE ACCUMULATION AREA | RI | B |
| SITE | WP 01 | | DUMP AREAS | RI | B |
| ** TATALINA AFS (AF) | | | | | |
| SITE | DS 01 | | DUMP AREAS | RI | B |
| SITE | DS 02 | | WASTE ACCUMULATION AREA 1 | RI | B |
| SITE | DS 03 | | WASTE ACCUMULATION AREA 3 | RI | B |
| SITE | DS 04 | | WASTE ACCUMULATION AREA 4 | RI | B |
| SITE | LF 01 | | LANDFILL 2 | RI | B |
| SITE | LF 02 | | WASTE ACCUMULATION AREA 2 | RI | B |
| SITE | OT 01 | | ROAD OILING | RI | B |
| SITE | OT 02 | | WHITE ALICE SITE | RI | B |
| SITE | SS 01 | | SPILL 1,2,3, AND 4 | RI | B |
| SITE | SS 05 | | SPILL 5 | RI | B |
| SITE | SS 06 | | SPILL 6 AND 7 | RI | B |
| SITE | SS 08 | | SPILL 8 | RI | B |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

ALASKA

| Site Name | Description | Project | Priority |
|-----------------------------|-------------------------|---------|----------|
| ** TIN CITY AFS (AF) | | | |
| SITE DS 01 | WASTE ACCUMULATION AREA | RI | B |
| SITE LF 01 | LANDFILL | RI | B |
| SITE OT 01 | ROAD OILING | RI | C |
| SITE OT 02 | WHITE ALICE SITE | RI | C |
| SITE SS 01 | SPILL 1 | RI | B |
| SITE SS 02 | SPILL 2 | RI | B |
| SITE WP 01 | DUMP 1 | RI | B |
| SITE WP 02 | DUMP 2 | RI | B |

ALABAMA

| Site Name | Description | Project | Priority |
|-----------------------------------|-------------------------------|---------|----------|
| ** ALABAMA AAP (ARMY) | | | |
| SITE 001 | MAGAZINE AREA | RA | A |
| SITE 002 | OLD BURNING GROUNDS | RA | A |
| SITE 003 | SMALL ARMS BALLASTICS RANGE | RA | A |
| SITE 004 | OLD WELL | RA | A |
| SITE 005 | PROPELLANT SHIPPING HOUSES | RI/FS | A |
| SITE 006 | RUBBLE PILE | RA | A |
| ** ANNISTON AD (ARMY) | | | |
| SITE 1 | BLDG 114 | RA | A |
| SITE 2 | Z-1 | RA | A |
| SITE 3 | BLDG 130 | RA | A |
| SITE 4 | LANDFILL (SOUTH) | RA | A |
| SITE 5 | OTHER (OPTION OF GWTS) | RA | A |
| ** FORT MCCLELLAN (ARMY) | | | |
| SITE 4 | RANGE T-24A | RI/FS | C |
| SITE 5 | RANGE T-38 | RI/FS | C |
| SITE 6 | RANGE I | RI/FS | C |
| SITE 7 | RANGE J | RI/FS | C |
| SITE 8 | RANGE L | RI/FS | C |
| SITE 9 | RANGE K | RI/FS | C |
| SITE 10 | FORMER LANDFILL | RI/FS | C |
| SITE 11 | FORMER LANDFILL | RI/FS | C |
| SITE 12 | FORMER LANDFILL | RI/FS | C |
| ** REDSTONE ARSENAL (ARMY) | | | |
| SITE 2 | OB/OD AREA | RI/FS | B |
| SITE 3 | LANDFILL | RI/FS | B |
| SITE 4 | OTHER | RI/FS | B |
| ** MAXWELL I.FB (AF) | | | |
| SITE FT 01 | FPTA 1 | RI/FS | B |
| SITE FT 02 | FPTA 2 | RI/FS | B |
| SITE UT 01 | UST ADJACENT TO BLDG 1036 | RA | C |
| SITE WP 01 | ELECTROPLATING WASTE DISPOSAL | RI/FS | B |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

CALIFORNIA

| Site Name | | Description | Project | Priority |
|------------------------------------|----|--------------------------------|---------|----------|
| ** RIVERBANK AAP (ARMY) | | | | |
| SITE | 1 | IWTP | RI/FS | B |
| SITE | 2 | ABANDON LANDFILL | RA | B |
| ** SACRAMENTO AD (ARMY) | | | | |
| SITE | 1 | OXIDATION LAGOON | RI/RA | A |
| SITE | 2 | BURN PIT | RA | A |
| ** SHARPE ARMY DEPOT (ARMY) | | | | |
| SITE | 1 | SOUTH BALLOON AREA | RI/RA | A |
| SITE | 2 | NORTH BALLOON AREA | RI/FS | A |
| ** SIERRA AD (ARMY) | | | | |
| SITE | 1 | HONEY LAKE | RI/FS | C |
| SITE | 2 | DISPOSAL PIT | RI/FS | C |
| SITE | 3 | AMMO WASHOUT LAGOON | RA | C |
| SITE | 4 | ABANDON DEMOLITION GROUNDS | RI/FS | C |
| SITE | 5 | UNK(INSTALL. WELLS) | RI/FS | C |
| ** CBC PORT HUENEME (NAVY) | | | | |
| SITE | 1 | NCEL STOR. YD | RI/FS | B |
| SITE | 12 | CED PCB SPILLS | RI/FS | C |
| SITE | 13 | MUSE PCB SPILL | RI/FS | C |
| SITE | 14 | EARTH MOVING AREA | RI/FS | B |
| SITE | 15 | TRANSFORMER STOR. | RI/FS | C |
| SITE | 17 | HW MAG. | RI/FS | C |
| SITE | 19 | HARBOR AND CANALS | RI/FS | B |
| SITE | 20 | PROPOSED NTC BLDG SITE | RI/FS | B |
| ** MCAGCC 29 PALMS (NAVY) | | | | |
| SITE | 1 | TRANSFORMER SPILL AREA | RI/FS | C |
| SITE | 11 | RUST PROOFING SPILL AREA | RI/FS | C |
| SITE | 18 | CRASH TRAINING PIT 18 | RI/FS | C |
| SITE | 7 | CRASH TRAINING PIT 2 | RI/FS | C |
| SITE | 8 | CRASH TRAINING PIT 3 | RI/FS | C |
| SITE | 10 | EVAPORATION PONDS | RI/FS | C |
| SITE | 14 | LANDFILL 1 | RI/FS | C |
| SITE | 15 | LANDFILL 2 | RI/FS | B |
| SITE | 16 | LANDFILL 3 | RI/FS | C |
| ** MCAS EL TORO (NAVY) | | | | |
| SITE | 1 | ORDNANCE DISPOSAL AREA | RI/FS | B |
| SITE | 2 | MAG. RD LANDFILL | RI/FS | B |
| SITE | 3 | ORIG. LNDFL | RI/FS | B |
| SITE | 5 | PERIMETER RD LNDFL | RI/FS | B |
| SITE | 9 | CRASH CREW PIT NOL | RI/FS | C |
| SITE | 11 | TRANSFORMER STOR. AREA | RI/FS | C |
| SITE | 14 | BATTERY ACID DISP. PIT | RI/FS | C |
| SITE | 16 | CRASH CREW PIT NO 2 | RI/FS | C |
| SITE | 17 | COMM. STATION LNDFL | RI/FS | B |
| ** MCAS TUSTIN (NAVY) | | | | |
| SITE | 1 | MOFFETT TRENCHES & CRASH PIT | RI/RA | B |
| SITE | 2 | DISPOSAL AREA | RI/FS | B |
| SITE | 3 | PAINT STRIPPER DISPOSAL AREA 1 | RI/FS | B |
| SITE | 5 | DRAINAGE NO.1 | RI/FS | B |
| SITE | 7 | GND ADJACENT TO ARPON | RI/FS | B |
| SITE | 8 | DRAINAGE 1 | RA | B |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

CALIFORNIA

| Site Name | | Description | Project | Priority |
|-------------------------------------|----|------------------------------|---------|----------|
| SITE | 9 | HANGAR 1 | RI/FS | B |
| SITE | 15 | BLIMP HANGAR | RI/FS | B |
| ** MCB CAMP PENDLETON (NAVY) | | | | |
| SITE | 3 | PEST CONTROL WASHRACK DRAIN | RI/RA | B |
| SITE | 4 | MCAF DRAINAGE DITCH | RI/RA | B |
| SITE | 5 | FIRE FIGHTING DRILL FIELD | RI/FS | B |
| SITE | 6 | OPDO SCRAP YARD | RI/PA | B |
| ** MCLB BARSTOW (NAVY) | | | | |
| SITE | 2 | PESTICIDE STOR. & WASHOUT | RI/RA | B |
| SITE | 9 | FUEL DISPOSAL AREA | RI/FS | B |
| SITE | 18 | SLUDGE WASTE AREA, YERMO | RI/RA | B |
| SITE | 21 | IND. WASTE DISPOSAL AREA | RI/RA | B |
| SITE | 33 | RIFLE RANGE DISPOSAL AREA | RA | B |
| ** NAB CORONADO (NAVY) | | | | |
| SITE | 2 | OLD REFUSE DISP/BURN AREA | RI/FS | C |
| SITE | 4 | SANDBLAST GRIT DISP. AREA | RI/FS | B |
| SITE | 6 | FIRE FIGHTING TRAINING AREA | RI/FS | C |
| SITE | 8 | OILED AREAS | RI/FS | C |
| ** NAS ALAMEDA (NAVY) | | | | |
| SITE | 1 | WEST BEACH LANDFILL | RI/FS | B |
| SITE | 2 | 1943,1956 DISPOSAL ARE | RI/FS | B |
| SITE | 3 | SEAPLANE LAGOON | RI/FS | B |
| SITE | 4 | AREA 97 | RI/FS | B |
| SITE | 5 | BLDG 301 AND 389 | RI/FS | B |
| SITE | 6 | CANS C-2 AREA | RI/FS | B |
| SITE | 7 | BLDG 360 | RI/FS | C |
| ** NAS LEMOORE (NAVY) | | | | |
| SITE | 1 | LANDFILL | RI/FS | B |
| SITE | 2 | BLDG 752 PEST. RINSE | RI/FS | C |
| SITE | 3 | BLDG 50 PEST RINSE | RI/FS | C |
| SITE | 4 | OLD FIRE TRAINING AREA | RI/RA | C |
| SITE | 5 | FIRE FIGHTING SCHOOL | RI/FS | C |
| SITE | 6 | OPERATION AREA OPEN DITCH | RI/FS | B |
| SITE | 7 | HOUSING AREA OPEN DITCH | RI/FS | C |
| SITE | 9 | IND. TREATMENT SLUDGE PONDS | RI/RA | C |
| SITE | 11 | BLDG 3 TRANSFORMER SPILL | RI/FS | C |
| SITE | 12 | BLDG 468 TRANSFORMER SPILL | RI/FS | C |
| SITE | 13 | TRANSFORMER STORAGE AREA | RI/FS | C |
| ** NAS MIRAMAR (NAVY) | | | | |
| SITE | 1 | FUEL FARM OPERATING AREA | RI/FS | B |
| SITE | 2 | ROSE CANYON | RI/FS | B |
| SITE | 3 | FISH POND | RI/FS | B |
| SITE | 4 | FIRE FIGHTING DRILL FIELDS | RI/FS | C |
| SITE | 5 | SAN CLEMENTE CANYON DISPOSAL | RI/FS | B |
| ** NAS MOFFETT FIELD (NAVY) | | | | |
| SITE | 1 | RUNWAY LANDFILL | RI/FS | A |
| SITE | 3 | MARRIAGE ROAD DITCH | RI/FS | A |
| SITE | 4 | IW HOLDING PONDS | RI/FS | A |
| SITE | 5 | FUEL FARM FRENCH DRAIN | RI/FS | A |
| SITE | 6 | RUNWAY APRON | RI/FS | A |
| SITE | 7 | HANGARS 2 AND 3 | RI/FS | A |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

CALIFORNIA

| Site Name | | Description | Project | Priority |
|-------------------------------------|----|--|---------|----------|
| SITE | 8 | WASTE OIL TRANSFER AREA | RI/FS | A |
| SITE | 9 | OLD FUEL FARM | RI/FS | A |
| SITE | 10 | CHASE PARK AREA | RI/FS | A |
| ** NAS NORTH ISLAND (NAVY) | | | | |
| SITE | - | SHORELINE SEDIMENTS | RI/FS | C |
| SITE | - | GOLF COURSE GARAGE DISP | RI/FS | C |
| SITE | - | HERITAGE PARK PW YARD | RI/FS | C |
| SITE | 9 | CHEM. WASTE DISPOSAL AREA | RI/FS | C |
| SITE | 10 | PROPERTY DISPOSAL AREA | RI/FS | C |
| ** NCS STOCKTON (NAVY) | | | | |
| SITE | 1 | LANDFILL | RI/FS | B |
| SITE | 2 | FIRE FIGHTING TRAINING GROUND | RI/FS | B |
| SITE | 3 | BATTERY ACID DISP. AREA | RI/FS | B |
| SITE | 4 | GSA AREA | RI/FS | B |
| ** NSB SAN DIEGO (NAVY) | | | | |
| SITE | 3 | NSC-PLA OIL DISP PITS | RI/FS | C |
| SITE | 4 | NSC-PLA TANK BOTTOMS | RI/FS | C |
| SITE | 5 | NOSC N. COAST DISP | RI/FS | C |
| SITE | 9 | NOSC BLDG A34 PLATING WASTE | RI/FS | B |
| SITE | 10 | NOSC SLUDGE DISP | RI/FS | C |
| SITE | 13 | DRUM DISPOSAL AREA | RI/FS | C |
| SITE | 16 | DEGAUSSING RUBBLE DISP. | RI/FS | C |
| ** NSY HUNTER'S POINT (NAVY) | | | | |
| SITE | 1 | OIL RECLAMATION PONDS | RI/FS | B |
| SITE | 3 | IND. LANDFILL | RI/FS | B |
| SITE | 5 | SCRAP YD | RI/FS | B |
| SITE | 6 | OLD TRANSFORMER STOR YD | RI/FS | C |
| SITE | 7 | BLDG 521 POWER PLANT | RI/RA | B |
| SITE | 8 | PICKLING AND PLATE YD | RI/FS | B |
| SITE | 9 | BAY FILL | RA | B |
| SITE | 11 | BATTERY AND PLATING SHOP | RI/FS | B |
| ** NSY MARE ISLAND (NAVY) | | | | |
| SITE | - | LEAD OXIDE AREAS | RI/FS | B |
| SITE | 1 | LANDFILL | RI/FS | B |
| SITE | 2 | OIL SUMPS | RI/RA | B |
| SITE | 4 | BERTHS 4 AND 5 | RI/RA | B |
| SITE | 5 | 900 AREA | RI/RA | B |
| SITE | 6 | BLDG 505 | RA | B |
| SITE | 7 | BLDG 629 BATTERY STORAGE | RA | B |
| SITE | 12 | CONCORD ANNEX | RI/RA | B |
| SITE | 13 | MARE ISLAND STRAIT | RA | B |
| SITE | 14 | SLUDGE PONDS | RI/RA | B |
| ** NTC SAN DIEGO (NAVY) | | | | |
| SITE | 1 | REFUSE DISP. | RI/FS | B |
| SITE | 2 | BLDG 227 UNDERGROUND TANK | RI/FS | C |
| SITE | 3 | EXCHANGE GAS STATION | RI/FS | B |
| SITE | 4 | OLD MTR POOL AND BLDG 3 UNDERGROUND TANK | RI/FS | B |
| SITE | 5 | BLDG 352 UNDERGROUND TANK | RI/FS | C |
| ** NWC CHINA LAKE (NAVY) | | | | |
| SITE | - | MINIDECK | RI/FS | B |
| SITE | - | ARMITAGE FIELD | RI/FS | B |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

CALIFORNIA

| Site Name | | Description | Project | Priority |
|----------------------------------|----|--------------------------------|---------|----------|
| SITE | 3 | ARMITAGE FIELD LEACH POND | RI/RA | C |
| SITE | 7 | MICHELSON LAB DRAINAGE | RI/RA | C |
| SITE | 12 | SHORT RD LNDFL | RI/RA | C |
| SITE | 12 | SHORT ROAD LNDFL | RI/RA | C |
| SITE | 13 | OILY WASTE DISP. AREA | RI/RA | C |
| SITE | 14 | ER RANGE SEPTIC SYS | RI/RA | C |
| SITE | 15 | R RANGE SEPTIC SYS | RI/FS | C |
| SITE | 16 | G-1 RANGE SEPTIC SYS | RI/FS | C |
| SITE | 17 | G-2 RANGE SEPTIC SYS | RI/FS | C |
| SITE | 22 | PILOT PLANT RD. | RI/FS | C |
| SITE | 27 | NAF DISP. AREA | RI/FS | C |
| SITE | 29 | G1 EAST DISP. AREA | RI/FS | B |
| SITE | 31 | PW PESTICIDE RINSE AREA | RI/FS | C |
| SITE | 32 | GOLF COURSE PESTICIDE RINSE | RI/FS | C |
| SITE | 34 | LAURITSEN ROAD LANDFILL | RI/RA | C |
| ** NWS CONCORD (NAVY) | | | | |
| SITE | 1 | TIDAL AREA LANDFILL | RI/FS | B |
| SITE | 2 | R AREA DISPOSAL SITE | RI/FS | B |
| SITE | 3 | KELN SITE | RI/FS | B |
| SITE | 4 | ALLIED SITE A | RI/FS | B |
| SITE | 5 | ALLIED SITE B | RI/FS | B |
| SITE | 6 | COKE PILE SITE | RI/FS | B |
| SITE | 9 | FROID AND TAYLOR RD DISPOSAL | RI/FS | B |
| SITE | 11 | WOOD HOGGER | RI/FS | B |
| SITE | 13 | BURNING AREA | RI/FS | B |
| SITE | 14 | KENNER BLVD WELLS | RI/FS | B |
| SITE | 16 | BLACK PIT AT RED ROCK | RI/FS | B |
| SITE | 25 | K-2 AREA | RI/FS | B |
| SITE | 26 | G-1 AREA | RI/FS | B |
| ** NWS SEAL BEACH (NAVY) | | | | |
| SITE | 1 | WW SETTLING POND | RI/FS | B |
| SITE | 2 | OIL ON ROADS | RI/FS | B |
| SITE | 2 | EVAP. POND | RI/FS | B |
| SITE | 6 | EXPLOSIVES BURNING GROUND | RI/FS | B |
| SITE | 7 | STATION LANDFILL | RI/FS | B |
| SITE | 8 | BATTERY SHOP DRAINAGE | RI/FS | B |
| SITE | 19 | BLDG 241 DISP. PIT | RI/FS | C |
| SITE | 22 | OIL ISLAND | RI/FS | B |
| SITE | 24 | BLDG 437 QUENCH WATER DISPOSAL | RI/FS | B |
| ** PMTC POINT MUGU (NAVY) | | | | |
| SITE | 1 | LAGOON LANDFILL | RI/FS | B |
| SITE | 2 | OLD SHOPS AREA | RI/FS | B |
| SITE | 3 | FUEL FARM | RI/FS | B |
| SITE | 4 | PUBLIC WORKS STOR YARD | RI/FS | B |
| SITE | 5 | OLD "6 AREA" SHOPS | RI/FS | B |
| SITE | 6 | BLDG 311 YARD | RI/FS | B |
| SITE | 7 | ELECTRIC SUBSTATION 680 | RI/FS | B |
| SITE | 9 | MAIN BASE FIRE SCHOOL | RI/FS | B |
| SITE | 11 | LAGOON AND DRAINAGE DITCHES | RI/FS | B |

02/27/67

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

CALIFORNIA

| Site Name | Description | Project | Priority |
|------------------------------------|---------------------------|---------|----------|
| ** AFP NO.42, PALMDALE (AF) | | | |
| SITE 1-1 | ENGINE RUN-UP AREA | RI | C |
| SITE 2-1 | PAINT WASTE DISP. DITCH | RI/FS | A |
| SITE 2-2 | PAINT WASTE DISPOSAL AREA | RI | C |
| SITE 2-3 | PAINT WASTE DISPOSAL AREA | RI | C |
| SITE 2-4 | ABANDONED DISPOSAL AREA | RI | C |
| SITE 2-5 | DISPOSAL AREA | RI | C |
| SITE 2-6 | DISPOSAL AREA | RI | C |
| SITE 2-7 | ENGINE RUN-UP AREA | RI/FS | B |
| SITE 2-8 | ENGINE RUN-UP AREA | RI | C |
| SITE 2-9 | FUEL CONTAMINATED DITCH | RI/FS | A |
| SITE 3-1 | ENGINE RUN-UP AREA | RI | C |
| SITE 3-2 | EVAPORATION PONDS | RI | C |
| SITE 4-1 | FUEL TRANSFER AREA | RI | C |
| SITE 5-1 | ENGINE RUN-UP AREA | RI/FS | B |
| SITE 5-2 | FUEL DISPOSAL AREA | RI | C |
| SITE 6-1 | ENGINE RUN-UP AREA | RI | C |
| SITE 7-1 | VEHICLE WASHRACK AND LUST | RI/FS | B |
| SITE 7-2 | FDTA (ORIGINAL) | RI/FS | B |
| SITE C-1 | FDTA (ABANDON) | RI/FS | B |
| SITE C-2 | NEW FDTA | RI | C |
| SITE C-3 | LANDFILL | RI | C |
| SITE 2-10 | DISPOSAL AREA | RI | C |
| SITE 2-11 | NOISE LEVEL AREA | RI | C |
| SITE 2-12 | TEB DISPOSAL AREA | RI | C |
| ** AFP NO.70, FOLSOM (AF) | | | |
| SITE 01 | DRUM STORAGE AREA | PA/SI | C |
| ** BEALE AFB (AF) | | | |
| SITE 01 | DISCHARGE AREA 1 | RI | A |
| SITE 02 | PHOTO WWTP | RI | B |
| SITE 03 | PHOTO WASTE INJ. WELL | RI | B |
| SITE 04 | FPTA 1&2 | RI/PA | B |
| SITE 04 | FPTA NO. 1 & 2 | RA | B |
| SITE 05 | BATTERY SHOP DRY WELL | RI | B |
| SITE 06 | DISCHARGE AREA 3 | RI | C |
| SITE 07 | LANDFILL 2 | RI | C |
| SITE 08 | DISCHARGE AREA 4 | RI | C |
| SITE 09 | DISCHARGE AREA 6 | RI | C |
| SITE 10 | DISCHARGE AREA 9 | RI | C |
| SITE 11 | DISCHARGE AREA 5 | RI | C |
| SITE 12 | DISCHARGE AREA 7 | RI | C |
| SITE 13 | DISCHARGE AREA 10 | RI | C |
| SITE 14 | LANDFILL 1 | RI | B |
| SITE 15 | DISCHARGE AREA 8 | RI | C |
| SITE 16 | LANDFILL 3 | RI | C |
| SITE DS 01 | BEST SLOUGH | RI | C |
| SITE LU 01 | POL TANK FARM | RI/RD | C |
| SITE OT 01 | ORDINANCE DISPOSAL | RI | C |
| ** CASTLE AFB (AF) | | | |
| SITE FT 01 | FPTA 1 | RD | B |
| SITE LF 01 | LANDFILL 1 | RA | A |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

CALIFORNIA

| Site Name | | Description | Project | Priority |
|--------------------------------|-------|---------------------------------|---------|----------|
| SITE | SS 01 | FUEL SPILL 1 | RD | B |
| SITE | SS 02 | FUEL SPILL 4 | RD | B |
| SITE | SS 03 | FUEL SPILL 2&3 | RD | C |
| SITE | TCE 5 | TCE SITE 5 | RD | A |
| SITE | TCE 7 | TCE SITE 7 | RD | A |
| ** EDWARDS AFB (AF) | | | | |
| SITE | 01 | DEFERRED FY86 FTA CLEAN-UP | RA | B |
| SITE | 17 | BLDG 1404 LEAKING FUEL TANKS | RA/RD | C |
| SITE | 19 | BLDG 1928 | RD | C |
| ** GEORGE AFB (AF) | | | | |
| SITE | B 08 | PEST. AND PAINT BURIAL | RA/RD | C |
| SITE | B 09 | ACID AND OIL BURIAL | RA/RD | C |
| SITE | B 10 | PEST. AND OIL BURIAL | RA/RD | C |
| SITE | L 01 | BASE LANDFILL | FS | C |
| SITE | L 02 | DISPOSAL SITE | FS | C |
| SITE | L 03 | RADIOACTIVE/TOXIC DISPOSAL | FS | C |
| SITE | L 04 | STARTER CARTRIDGE DISPOSAL ARE | FS | C |
| SITE | L 11 | STREET SWEEPING DIS. | RA/RD | C |
| SITE | L 12 | ORIGINAL BASE LANDFILL | RA/RD | C |
| SITE | L 13 | BASE LANDFILL | RA/RD | C |
| SITE | M 02 | M-2 MUNITIONS DISP. | RD | C |
| SITE | S 20 | IND. OUTFALL DITCH 6 | RA/RD | B |
| ** LOS ANGELES AFS (AF) | | | | |
| SITE | SS 01 | FUEL SPILL SITE | RA/RD | B |
| ** MARCH AFB (AF) | | | | |
| SITE | 01 | LANDFILL 1 | RI | C |
| SITE | 02 | LANDFILL 2 | RI | C |
| SITE | 03 | LANDFILL 3 | RI | B |
| SITE | 04 | TCE CONTAMINATION | RI | B |
| SITE | 05 | TCE CONTAMINATION | RI | B |
| SITE | 06 | LANDFILL 6 | RI | B |
| SITE | 07 | LANDFILL 7 | RI | C |
| SITE | 08 | FPTA 1 | RI | C |
| SITE | 09 | FPTA 2 | RI | B |
| SITE | 10 | FPTA 3 | RI | C |
| SITE | 12 | E. SLUDGE DRYING BEDS | RI | C |
| SITE | 13 | W. SLUDGE DRYING BEDS | RI | C |
| SITE | 14 | EFFLUENT POND | RI | C |
| SITE | 15 | CONDURE EFFLUENT POND | RI | C |
| SITE | 17 | SWIMMING POOL FILL | RI | C |
| SITE | 18 | AIRCRAFT ISO. AREA | RI | B |
| SITE | 19 | LIQ. FUEL PUMP STATION OVERFLOW | RI | C |
| SITE | 20 | TANK TRUCK SPILL | RI | C |
| SITE | 21 | BULK FUEL STOR. | RI | B |
| SITE | 22 | WASTE OIL PIT | RI | B |
| SITE | 23 | ENGINE TEST CELL | RI | C |
| SITE | 24 | MAIN OIL/WATER SEPERATION | RI | B |
| SITE | 25 | FLIGHTLINE DRAINAGE | RI | B |
| SITE | 26 | FLIGHT LINE SHOP | RI | B |
| SITE | 27 | CE STOR YD | RI | B |
| SITE | 29 | UNCONFIRMED SOLVENT DISPOSAL | RI | C |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

CALIFORNIA

| Site Name | Description | Project | Priority |
|---|-----------------------------|---------|----------|
| SITE 30 | LF-5, SITE #3 | RI | C |
| SITE 31 | TCE CONTAM. | RI/FS | C |
| SITE LU 01 | BLDG 422 POL TANKS | RI | C |
| SITE OT 01 | MUNITIONS RESIDENCE BURIAL | RI | C |
| SITE OT 02 | ZONE 1 MONITORING | RI | C |
| SITE WP 01 | WTP SLUDGE | RI | C |
| ** MATHER AFB (AF) | | | |
| SITE NPL-12 | ACW SITE NPL-12 | FS | A |
| ** NORTON AFB (AF) | | | |
| SITE 01 | BURNING LAGOON SITE 17 | RA | C |
| SITE DS 01 | WASTE DRUM STORAGE 3 | RA | C |
| ** TRAVIS AFB (AF) | | | |
| SITE FT 01 | FPTA 1 | RI | B |
| SITE FT 02 | FPTA 2 | RI | B |
| SITE FT 03 | FPTA 3 | RI | B |
| SITE FT 04 | FPTA 4 | RI | B |
| SITE LF 01 | LANDFILL 1 | RI | B |
| SITE LF 02 | LANDFILL 2 | RI | B |
| SITE LF 03 | LANDFILL 3 | RI | B |
| SITE OT 01 | DISPOSAL SITE 1 | RI | B |
| SITE OT 02 | DISPOSAL SITE 3 | RI | B |
| SITE OT 03 | STP SLUDGE DISPOSAL | RI | B |
| SITE SS 01 | JP-4 SPILL | RI | B |
| SITE SS 02 | OLD SPILLAGE | RI | B |
| SITE SS 03 | SOLVENT SPILL | RI | B |
| SITE SS 04 | OIL SPILL | RI | B |
| SITE WP 01 | STP INACTIVE OXIDATION POND | RI | B |
| ** VANDENBERG AFB (AF) | | | |
| SITE LF 03 | LANDFILL 2 | RD | B |
| ** DDTTC TRACY (DEFENSE LOGISTICS AGENCY) | | | |
| SITE 23 | FORMER LANDFILLS | RI/FS | A |
| ** DFSP NORWALK (DEFENSE LOGISTICS AGENCY) | | | |
| SITE 1 | TANK FARM | RA | A |
| ** DFSP OZOL (DEFENSE LOGISTICS AGENCY) | | | |
| SITE 1 | TANK FARM | RI/FS | A |
| ** DFSP SAN PEDRO (DEFENSE LOGISTICS AGENCY) | | | |
| SITE 1 | TANK FARM | RI/FS | A |
| SITE 2 | WHARF | RI/FS | A |

COLORADO

| Site Name | Description | Project | Priority |
|---|--------------------------|---------|----------|
| ** ROCKY MOUNTAIN ARSENAL (ARMY) | | | |
| | BASIN F | RI/FS | A |
| | BASIN F REMOVAL ACTION | RI/FS | A |
| | PILOT DEMO TO DECON SOIL | RI/FS | A |
| | RIFS ON ALL SITES | RI/FS | A |
| ** AFP PJKS WATERTON (AF) | | | |
| SITE 01 | T-8A CONTAMINATION POND | RI/FS | A |
| SITE 03 | EPL BLDG T-6 AND T-20A | RI/FS | A |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

COLORADO

| Site Name | Description | Project | Priority |
|-----------------------------|---------------------------------------|---------|----------|
| SITE 04 | HYDRAZINE SPILL, TANK T-31 | RI/FS | A |
| SITE 05 | D-1 LANDFILL | RI/FS | A |
| SITE 06 | DEISEL TANK T-23 | RI/FS | A |
| SITE 07 | TEST FAC. STORAGE | RI/FS | A |
| SITE 08 | NO. 6 DIESEL FUEL BELOW D-1 | RI/FS | A |
| SITE 09 | DRAINAGE FLUMES | RI/FS | A |
| SITE OT 01 | EPL TEST CELLS, VALVE SHOP STOR. AREA | RI/FS | A |
| ** USAF ACADEMY (AF) | | | |
| SITE FT 01 | FDTA | RI | C |
| SITE LF 01 | LANDFILL-FARRISH | RI | B |
| SITE LF 02 | LANDFILL 1 | RI | C |
| SITE LF 03 | LANDFILL 2 | RI | C |
| SITE OT 01 | FIRING RANGE | RI | C |
| SITE OT 02 | WW II DISP. SITE | RI | C |
| SITE SS 01 | JP-4 SPILL | RI | B |
| SITE WP 01 | DIGESTED SLUDGE DISP. SITE | RI | C |
| SITE WP 02 | DREDGE DISPOSAL SITE-FARRISH | RI | B |
| SITE WP 03 | DREDGED MAT. DISP. SITE | RI | C |

CONNECTICUT

| Site Name | Description | Project | Priority |
|---------------------------------|-------------------------|---------|----------|
| ** NSB NEW LONDON (NAVY) | | | |
| SITE | OBDA NE | RI/FS | B |
| SITE 2 | AREA A LNDFL | RI/FS | B |
| SITE 3 | OVER-BANK DISPOSAL AREA | RI/FS | B |
| SITE 6 | OPDO AREA | RI/FS | B |

DISTRICT OF COLUMBIA

| Site Name | Description | Project | Priority |
|----------------------------|------------------------|---------|----------|
| ** BOLLING AFB (AF) | | | |
| SITE 01 | FPTA | RI | C |
| SITE 02 | HEATING PLANT OIL LEAK | RI | B |
| SITE LF 01 | LANDFILL 1 | RI | B |

DELAWARE

| Site Name | Description | Project | Priority |
|--------------------------|------------------------------|---------|----------|
| ** DOVER AFB (AF) | | | |
| SITE 01 | LANDFILL 5 | RI | B |
| SITE D-4 | LIQUID WASTE DISPOSAL | RI/FS | A |
| SITE D-5 | SANITARY LANDFILL | RI | A |
| SITE S-1 | HAZARDOUS WASTE STORAGE AREA | RI | A |
| SITE T-1 | INDUSTRIAL WASTE LAGOON | RI/FS | A |
| SITE XYZ | MAIN FUEL PUMPING MANHOLES | RI | A |
| SITE D 02 | CONSTRUCTION RUBBLE | RI | A |
| SITE D-04 | LIQUID WASTE DISPOSAL | RD | A |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

DELAWARE

| Site Name | Description | Project | Priority |
|------------|--------------------------------|---------|----------|
| SITE D-10 | SANITARY LANDFILL | RI | A |
| SITE DD-1 | NORTH DRAINAGE DITCH | RI/FS | A |
| SITE FT-1 | FPTA 1 | RI | A |
| SITE FT-2 | FIRE TRAINING AREA | RI | A |
| SITE FT-3 | FPTA 3 | RI | A |
| SITE SP-4 | JP-4 PIPELINE LEAK | RI | A |
| SITE T-01 | RAP PROCESS, IND. WASTE LAGOON | RD | A |
| SITE DD-01 | RAP PROCESS, N. DRAINAGE DITCH | RD | A |
| SITE SP 03 | SPILL SITE | RI | B |
| SITE SP-09 | RAP PROCESS | RD | A |

FLORIDA

| Site Name | Description | Project | Priority |
|-----------------------------------|-----------------------------------|---------|----------|
| ** NAS CECIL FIELD (NAVY) | | | |
| SITE 1 | OLD LANDFILL | RI/FS | B |
| SITE 2 | RECENT LNDFL | RI/FS | B |
| SITE 3 | OIL SLUDGE PIT | RI/FS | B |
| SITE 4 | GREASE PITS | RI/FS | B |
| SITE 5 | OIL DISP. AREA NW | RI/FS | B |
| SITE 7 | OLD FIRE FIGHTING TRAINING AREA | RI/FS | B |
| SITE 8 | HW/FIRE FIGHTING TRAINING AREA | RI/FS | B |
| SITE 11 | PESTICIDE DISP. | RI/FS | B |
| SITE 16 | AIMD SEEPAGE PIT | RI/RA | B |
| SITE 17 | OIL SLUDGE DISP. PIT SW | RI/FS | B |
| ** NAS JACKSONVILLE (NAVY) | | | |
| SITE 7 | JP-4 EXPLOSION FUEL FARM | RA | B |
| SITE 11 | HANGAR BUILDING 101 | RA | B |
| SITE 12 | OLD TEST CELL BLDG | RA | B |
| SITE 14 | BATTERY SHOP | RA | B |
| SITE 15 | SOLVENT AND PAINT SLUDGE | RA | B |
| SITE 16 | STORM SEWER DISCHARGE BLACK POINT | RA | B |
| SITE 25 | BLDG 2038 | RA | B |
| SITE 26 | OLD MAIN REGISTERED DISPOSAL AREA | RA | B |
| SITE 27 | PCB STORAGE | RA | B |
| ** NAS KEY WEST (NAVY) | | | |
| SITE . | NORTH LANDFILL | RI/FS | B |
| SITE . | SOUTH LNDFL | RI/FS | B |
| SITE . | TANK FARM | RI/FS | B |
| SITE . | FIRE FIGHTING TRAINING AREA | RI/FS | B |
| SITE 1 | TRUMAN ANNEX DISP AREA | RI/FS | C |
| SITE 2 | TRANSFORMER OIL DISP AREA | RI/FS | B |
| SITE 3 | TRUMAN ANNEX DOT MIXING AREA | RI/FS | C |
| SITE 4 | BOCA CHICA OPEN DISP AREA | RI/FS | C |
| SITE 5 | BOCA CHICA DOT MIXING AREA | RI/FS | C |
| ** NAS PENSACOLA (NAVY) | | | |
| SITE 1 | SAN. LNDFL | RI/RA | B |
| SITE 2 | WATERFRONT SEDIMENTS | RI/FS | B |
| SITE 3 | CRASH CREW TRAINING AREA | RI/FS | B |
| SITE 9 | NAVY YARD DISPOSAL AREA | RI/FS | B |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

FLORIDA

| Site Name | Site No. | Description | Project | Priority |
|------------------------------------|----------|---------------------------------------|---------|----------|
| SITE | 11 | N. CHEVALIER FIELD DISPOSAL | RI/FS | B |
| SITE | 15 | PESTICIDE RINGEATE AREA | RI/RA | B |
| SITE | 17 | TRANSFORMER STOR. | RI/FS | B |
| SITE | 19 | FUEL FARM PIPELINE LEAK | RI/RA | B |
| SITE | 21 | SLUDGE DISPOSAL AT FUEL TANK | RI/FS | B |
| SITE | 22 | RFUELER REPAIR SHOP FUEL DISPOSAL | RI/FS | B |
| SITE | 23 | CHEVALIER FIELD PIPELINE LEAK | RI/FS | B |
| SITE | 26 | SUP DEPT OUTSIDE STOR | RI/FS | B |
| SITE | 27 | RADIUM DIAL SHOP SEWER | RI/FS | B |
| SITE | 29 | SOIL S. OF BLDG 3460 | RI/FS | B |
| SITE | 30 | BLDG 649/755 | RI/FS | B |
| SITE | 31 | BLDG 648 | RI/FS | B |
| SITE | 32 | IND. SLUDGE DRYING BEDS | RI/FS | B |
| SITE | 33 | WWTP POND | RI/FS | B |
| SITE | 34 | BLDG 3557 | RI/RA | B |
| ** NAS WHITING FIELD (NAVY) | | | | |
| SITE | 1 | NW DISPOSAL AREA | RI/FS | B |
| SITE | 3 | UNDERGROUND WASTE SOLVENT STOR AREA | RI/FS | B |
| SITE | 4 | NORTH AVGAS TANK SLUDGE DISPOSAL AREA | RI/FS | B |
| SITE | 5 | BATTERY ACID SEEPAGE PIT | RI/FS | B |
| SITE | 6 | S. TRANSFORMER OIL DISPOSAL AREA | RI/FS | B |
| SITE | 7 | S. AVGAS TANK SLUDGE DISPOSAL AREA | RI/FS | B |
| SITE | 8 | AVGAS FUEL SPILL AREA | RI/FS | B |
| SITE | 9 | WASTE FUEL DISPOSAL AREA | RI/FS | B |
| SITE | 10 | SE OPEN DISPOSAL AREA A | RI/FS | B |
| SITE | 11 | SE OPEN DISPOSAL AREA B | RI/FS | B |
| SITE | 12 | TETRAETHYL LEAD DISPOSAL AREA | RI/FS | B |
| SITE | 13 | LANDFILL | RI/FS | B |
| SITE | 14 | SHORT TERM SANITARY LANDFILL | RI/FS | B |
| SITE | 15 | SW LANDFILL | RI/FS | B |
| SITE | 16 | OPEN DISPOSAL AND BURNING AREA | RI/FS | B |
| ** NCSC PANAMA CITY (NAVY) | | | | |
| SITE | 1 | ORIG. BURN SITE | RI/FS | B |
| SITE | 2 | BURN AND LNDFL AREA | RI/FS | B |
| SITE | 3 | OLD FIRE TRAINING AREA | RI/FS | B |
| SITE | 4 | UNDERGROUND OIL CONTAINER AREA | RI/FS | B |
| SITE | 5 | PAINT EQUIP. CLEANING AREA | RI/FS | B |
| SITE | 6 | BURN DISPOSAL AREA | RI/FS | B |
| SITE | 8 | SOLVENT DISP BEHIND B40 | RI/FS | B |
| ** NS MAYPORT (NAVY) | | | | |
| SITE | 1 | LANDFILL A | RI/FS | B |
| SITE | 2 | LNDFL B | RI/FS | B |
| SITE | 4 | LNDFL D | RI/FS | C |
| SITE | 5 | LNDFL E | RI/FS | C |
| SITE | 6 | LNDFL F | RI/FS | C |
| SITE | 8 | WASTE OIL PIT | RI/FS | B |
| SITE | 9 | FUEL SPILL AREA | RI/FS | B |
| SITE | 14 | MERC/OILY WASTE SPILL | RI/FS | B |
| ** NYC ORLANDO (NAVY) | | | | |
| SITE | 1 | NORTH FIELD LNDFL | RI/FS | B |
| SITE | 3 | MCCOY LNDFL | RI/FS | B |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

FLORIDA

| Site Name | | Description | Project | Priority |
|------------------------------|-------|-------------------------------|---------|----------|
| SITE | 6 | DPDO MCCOY ANNEX | RI/FS | B |
| SITE | 8 | NTC PESTICIDE BLDG | RI/FS | B |
| SITE | 9 | LAKE BALDWIN | RI/FS | B |
| ** EGLIN AFB (AF) | | | | |
| SITE | OT 01 | HERD FACILITY | RA | C |
| ** HOMESTEAD AFB (AF) | | | | |
| SITE | SP-4 | LEAK AT POL STORAGE TANK FARM | RI | D |
| SITE | SP-5 | PUMP STATION 9 ON FLIGHT LINE | RA | B |
| SITE | SP-6 | MOGAS LEAK BX STATION | RI | B |
| ** MACDILL AFB (AF) | | | | |
| SITE | A | FORMER FUEL STORAGE AREA | FS/RO | C |
| ** PATRICK AFB (AF) | | | | |
| SITE | 03 | CHEMICAL DISPOSAL SITE | RA | C |
| SITE | LF 01 | LANDFILL 1 | RA | B |
| ** TYNDALL AFB (AF) | | | | |
| SITE | 06 | SEWAGE PLANT LANDFILL | RA/RO | B |
| SITE | 07 | SPRAY FIELD LANDFILL | HA/RO | B |

GEORGIA

| Site Name | | Description | Project | Priority |
|-------------------------------|-------|-------------------------------|---------|----------|
| ** FORT BENNING (ARMY) | | | | |
| SITE | 1 | CLOSED LANDFILL 1 | RI/FS | C |
| SITE | 2 | CLOSED LANDFILL 2 | RI/FS | C |
| SITE | 3 | CLOSED LANDFILL 3 | RI/FS | C |
| SITE | 4 | CLOSED LANDFILL 4 | RI/FS | C |
| SITE | 5 | CLOSED LANDFILL 5 | RI/FS | C |
| SITE | 6 | CLOSED LANDFILL 6 | RI/FS | C |
| ** MCLB ALBANY (NAVY) | | | | |
| SITE | | PENTACHLOROPHENOL DIP TANK | RI/FS | B |
| SITE | | CLEANING TANK BLDG 572 | RI/FS | B |
| SITE | 2 | RUBBLE DISPOSAL AREA | RI/FS | B |
| SITE | 3 | LONG-TERM LNDFL | RI/FS | B |
| SITE | 5 | W. DISPOSAL AREA | RI/FS | B |
| SITE | 6 | IND. DISCHARGE DRAINAGE DITCH | RI/FS | B |
| ** DOBBINS AFB (AF) | | | | |
| SITE | 01 | LANDFILL | FS | B |
| SITE | 02 | FOTA, PAST | FS | B |
| SITE | 03 | FOTA, PRESENT | FS | C |
| SITE | 04 | BIG LAKE | FS | B |
| SITE | 06 | AVGAS SLUDGE BURIAL | FS | C |
| SITE | 08 | LEADED PAINT BURIAL | FS | C |
| ** ROBINS AFB (AF) | | | | |
| SITE | 01 | FTA 4 | RI | A |
| SITE | 02 | PCB SPILL | RI | A |
| SITE | 03 | WATER WELLS | RI | A |
| SITE | FT 01 | FTA 1 | RI | A |
| SITE | FT 02 | FTA 2 | RI | A |
| SITE | FT 03 | FTA 3 | RI/FS | A |
| SITE | LF 01 | LANDFILL 1 | RI | A |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

GEORGIA

| Site Name | Description | Project | Priority |
|------------|---------------------------------|---------|----------|
| SITE LF 02 | LANDFILL 2 | RI | A |
| SITE LF 03 | LANDFILL 3 | RI | A |
| SITE LF 04 | LANDFILL 4 | RI | A |
| SITE RW 01 | RADIOACTIVE WASTE DISPOSAL SITE | RI/FS | A |
| SITE WP 01 | HAZ WASTE DISPOSAL SITE | RI | A |
| SITE WP 02 | LABORATORY CHEM. BURIAL | RI | A |
| SITE WP 03 | SLUDGE LAGOON | RI | A |

GUAM

| Site Name | Description | Project | Priority |
|-----------------------------|------------------------------|---------|----------|
| ** NAS AGANA (NAVY) | | | |
| SITE 1 | SANITARY LANDFILL | RI/FS | C |
| SITE 2 | DRAIN BASIN HOLD PIT | RI/FS | C |
| SITE 3 | NAVMAG-EOD FORMER DEMO RANGE | RI/FS | B |
| SITE 8 | FINEGAYAN LANDFILL 1 | RI/FS | C |
| SITE 9 | FINEGAYAN LANDFILL 2 | RI/FS | C |
| ** PWC GUAM (NAVY) | | | |
| SITE 16 | PCB TRANSFORMER FILTER AREA | RI/RA | B |
| ** ANDERSEN AFB (AF) | | | |
| SITE 05 | RMW CENTRAL SOIL | RD | C |
| SITE DS 02 | DRUM STORAGE AREA | RI/RD | C |

HAWAII

| Site Name | Description | Project | Priority |
|------------------------------------|-------------------------------|---------|----------|
| ** MCAS KANEHOE (NAVY) | | | |
| SITE 1 | M-3 LANDFILL | RI/RA | B |
| ** NAS BARBERS POINT (NAVY) | | | |
| SITE 1 | CORAL SEA RD CORAL PIT | RI/FS | B |
| SITE 2 | ORDY POND | RI/FS | B |
| SITE 3 | SANITARY LANDFILL | RI/FS | B |
| ** NSY PEARL HARBOR (NAVY) | | | |
| SITE | PCB EXPLOSION CONTAM | RA | B |
| SITE 4 | PEARL CITY PENINSULA LANDFILL | RI/FS | B |
| SITE 7 | TRANSFORMER STATION 0-4 | RI/FS | B |
| SITE 22 | OIL WASTE DISPOSAL PIT | RI/FS | B |
| ** BELLOWS AFB (AF) | | | |
| SITE LF 01 | LANDFILL | RI | B |
| SITE LF 02 | LANDFILL W/IN H SHOP AREA | RI | C |
| SITE OT 01 | SHOP AREA SEPTIC TANK | RI | C |
| ** HICKAM AFB (AF) | | | |
| SITE 01 | HICKAM SITE 1 | RI | C |
| SITE 05 | TRI SERVICES LANDFILL | RI/RD | B |
| SITE 07 | HICKAM SITE 7 | RI/RD | B |
| SITE 09 | FUEL LEAK | RI | C |
| SITE 10 | FUEL LEAK | RI | C |
| SITE 11 | FUEL LEAK | RI | C |
| SITE 12 | FUEL LEAK | RI | C |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

HAWAII

| Site Name | Description | Project | Priority |
|----------------------------|-----------------------------------|---------|----------|
| SITE 13 | HICKAM SITE 13 | RI/RD | B |
| SITE 14 | HICKAM SITE 14 | RI/RD | B |
| SITE 15 | HICKAM SITE 15 | RI/RD | B |
| SITE 16 | FUEL LEAK | RI | C |
| SITE 17 | FUEL LEAK | RI | C |
| SITE 18 | FUEL LEAK | RI | C |
| SITE 19 | HICKAM SITE 19 | RI/RD | B |
| SITE 21 | CANAL STORM DRAINAGE SYSTEM | RI | C |
| SITE 22 | KUMUNAUI CANAL STORM DRAIN SYSTEM | RI | C |
| SITE 23 | MTR POOL STORM DRAIN SYS | RI | C |
| ** WHEELER AFB (AF) | | | |
| SITE 01 | CLEAN-UP | RI/FS | C |
| SITE 02 | CLEAN-UP | RI/FS | C |
| SITE 03 | CLEAN-UP | RI/FS | B |
| SITE 04 | CLEAN-UP | RI/FS | B |
| SITE 05 | AIRCRAFT PARKING /WASH RACK | RI | C |
| SITE 06 | AIRCRAFT PARKING | RI | C |
| SITE 07 | SANITARY SEWER SYSTEM | RI/FS | C |

IOWA

| Site Name | Description | Project | Priority |
|---------------------------|---------------------------|---------|----------|
| ** IOWA AAP (ARMY) | | | |
| SITE 1 | PINK WATER LAGOON | RA | B |
| SITE 2 | FORMER LINE 1 IMPOUNDMENT | RA | B |
| SITE 3 | INERT LANDFILL | RI/FS | B |

IDaho

| Site Name | Description | Project | Priority |
|------------------------------------|---------------|---------|----------|
| ** GOWEN FIELD (BOISE) (AF) | | | |
| SITE 95 | SITES 1,2,5,6 | RI/FS | C |

ILLINOIS

| Site Name | Description | Project | Priority |
|----------------------------------|-----------------------------|---------|----------|
| ** JOLIET AAP (ARMY) | | | |
| SITE 1 | MANUFACTURING AREA | RI/FS | A |
| ** SAVANNA ADA (ARMY) | | | |
| SITE 1 | WASHOUT LAGOON IMPOUNDMENT | RA | A |
| SITE 2 | WASHOUT LAGOON IMPOUNDMENT | RA | A |
| SITE 3 | WASHOUT LAGOON IMPOUNDMENT | RA | A |
| SITE 4 | WASHOUT LAGOON IMPOUNDMENT | RA | A |
| SITE 5 | WASHOUT LAGOON IMPOUNDMENT | RA | A |
| SITE 6 | WASHOUT LAGOON IMPOUNDMENT | RA | A |
| ** NTC GREAT LAKES (NAVY) | | | |
| SITE 1 | GOLF COURSE LNDFL | RI/FS | C |
| SITE 4 | FIRE FIGHTING TRAINING AREA | RI/FS | C |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

ILLINOIS

| Site Name | Description | Project | Priority |
|-----------------------------------|-------------------------------------|---------|----------|
| SITE 5 | TRANSFORMER STOR. "BONEYARD" | RI/FS | C |
| SITE 6 | MAINSIDE TRANSFORMER STOR. | RV/RA | C |
| SITE 7 | RTC SILK SCREENING SHOP | RI/FS | B |
| SITE 8 | EXCHANGE SERVICE STATION | RI/FS | B |
| SITE 12 | HARBOR DREDGE SPOIL AREA | RI/FS | B |
| ** O'HARE AIR RESERVE (AF) | | | |
| SITE 01 | LANDFILL 1 | FS | B |
| SITE 02 | JP-4 TANK WEST POL AREA | FS | B |
| SITE 03 | FIRE PROTECTION TRAINING AREA | FS | B |
| SITE 04 | LANDFILL 2 | FS | B |
| SITE RW 01 | LOW LEVEL RADIOACTIVE DISPOSAL SITE | FS | C |
| ** SCOTT AFB (AF) | | | |
| SITE FT 01 | FPTA 1 | RI | B |
| SITE FT 02 | FPTA 2 | RI | B |
| SITE FT 03 | FPTA 3 | RI | B |
| SITE LF 01 | LANDFILL | RI | B |
| SITE SS 01 | FACILITY 1965 SPILL SITE | RI | B |
| SITE SS 02 | FACILITY 8550 SPILL SITE | RI | B |
| SITE WP 01 | SLUDGE LAGOON | RI | B |

INDIANA

| Site Name | Description | Project | Priority |
|------------------------------|---------------------------|---------|----------|
| ** NEWPORT AAP (ARMY) | | | |
| SITE 1 | BURNING GROUND | RI/FS | C |
| SITE 2 | RED WATER ASH LAGOONS (3) | RI/FS | C |
| SITE 3 | GYPSUM SLUDGE BASINS | RI/FS | C |
| SITE 4 | RETENTION POND | RI/FS | C |
| ** NWSC CRANE (NAVY) | | | |
| SITE 1 | BATTERY SHOP | RI/FS | B |
| SITE 2 | MCCORMISH GROGE | RI/FS | C |
| SITE 3 | BURNING PIT | RI/FS | B |
| SITE 5 | PESTICIDE SHOP B-2189 | RI/FS | C |
| SITE 6 | ROADS AND GROUNDS AREA | RI/FS | C |
| SITE 9 | DEMOLITION AREA | RI/FS | B |
| SITE 10 | ORDNANCE BURNING GROUNDS | RI/FS | B |
| SITE 11 | CHEM. BURIAL GROUNDS | RI/FS | B |
| SITE 12 | OYE BURIAL GROUNDS | RI/FS | B |
| SITE 13 | LOAD AND FILL AREA | RI/FS | B |
| SITE 14 | MINE FILL A AND B | RI/FS | C |
| SITE 15 | ROCKETE | RI/FS | C |
| SITE 16 | CAST HIGH EXPLOSIVES FILL | RI/FS | B |
| SITE 17 | LOAD AND FILL POND | RI/FS | B |
| ** GRISCOM AFB (AF) | | | |
| SITE 30 | PH II STUDIES | RI | C |
| SITE FY 01 | FTA 1 | RI | C |
| SITE FY 02 | FTA 2 | RI | C |
| SITE LF 01 | LANDFILL 1 | RI | C |
| SITE LF 02 | LANDFILL 2 | RI | C |
| SITE LF 03 | LANDFILL 3 | RI | B |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

INDIANA

| Site Name | Description | Project | Priority |
|------------|------------------------|---------|----------|
| SITE OT 01 | SLUDGE WEATHERING SITE | RI | C |
| SITE OT 02 | WASTE OIL STORAGE PAD | RI | C |

KANSAS

| Site Name | Description | Project | Priority |
|--------------------------------|------------------------------|---------|----------|
| ** KANSAS AAP (ARMY) | | | |
| SITE 1 | LAP DEMOLITION AND LANDFILL | RI/FS | C |
| ** SUNFLOWER AAP (ARMY) | | | |
| SITE 1 | RR CLASS YARD | RI/FS | C |
| SITE 2 | POND A | RI/FS | C |
| SITE 3 | POND B | RI/FS | C |
| SITE 4 | PYOTT'S POND | RI/FS | C |
| SITE 5 | STATIC ROCKET TEST AREA | RI/FS | C |
| SITE 6 | CANNON RANGE | RI/FS | C |
| SITE 7 | CHROMATE AREA | RI/FS | C |
| SITE 8 | LANDFILL | RI/FS | C |
| SITE 9 | OLD EXPLOSIVE BURN AREA | RI/FS | C |
| SITE 10 | LEAD RECOVERY AREA | RI/FS | C |
| SITE 11 | CONTAM MATER BURNING GROUNDS | RI/FS | C |
| SITE 12 | F-LINE,PASTE AREA, N-PONDS | RI/FS | C |
| SITE 13 | CAPTAIN CREEK | RI/FS | C |
| SITE 14 | KILL CREEK | RI/FS | C |
| SITE 15 | SPOOL CREEK | RI/FS | C |
| ** FORBES FIELD (AF) | | | |
| SITE 03 | MULTISITES | RI/FS | B |
| SITE 04 | REFUELING HYDRANT 1 | RI | B |
| SITE 05 | REFUELING HYDRANT 2 | RI/FS | B |
| ** MCCONNELL AFB (AF) | | | |
| SITE 01 | SPILL 1 | RI | B |
| SITE 02 | SPILL 1 SITE 2 | RI | C |
| SITE 03 | SPILL SITE 3 | RI | C |
| SITE 04 | SPILL SITE 4 | RI | C |
| SITE 3-2 | MISSILE SITE | RI | C |
| SITE FT 01 | FIRE TRAINING PIT 2 | RI | B |
| SITE FT 02 | FIRE TRAINING PIT 3 | RI | B |
| SITE FT 03 | FIRE TRAINING PITS 1&5 | RI | B |
| SITE LF 01 | HQ DISPOSAL SITE | RI | B |
| SITE LF 02 | LANDFILL 1 | RI | B |
| SITE LF 03 | LANDFILL 2 | RI | B |
| SITE RW 01 | RADIOACTIVE WASTE SITE | RI | C |

KENTUCKY

| Site Name | Description | Project | Priority |
|--------------------------------|--------------------|---------|----------|
| ** FORT CAMPBELL (ARMY) | | | |
| SITE 1 | CAMPBELL AIR FIELD | RI/FS | C |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

KENTUCKY

| Site Name | Description | Project | Priority |
|-----------|-------------|---------|----------|
|-----------|-------------|---------|----------|

**** NOS LOUISVILLE (NAVY)**

| | | | | |
|------|---|-----------------------------|-------|---|
| SITE | 4 | NW CORNER LIQUID DISP. AREA | RI/FS | C |
|------|---|-----------------------------|-------|---|

LOUISIANA

| Site Name | Description | Project | Priority |
|-----------|-------------|---------|----------|
|-----------|-------------|---------|----------|

**** FORT POLK (ARMY)**

| | | | | |
|------|----|---------------------------|-------|---|
| SITE | 1 | OLD LANDFILL | RI/FS | C |
| SITE | 2 | OLD LANDFILL | RI/FS | C |
| SITE | 3 | OLD LANDFILL | RI/FS | C |
| SITE | 4 | OLD LANDFILL | RI/FS | C |
| SITE | 5 | OLD LANDFILL | RI/FS | C |
| SITE | 6 | OLD LANDFILL | RI/FS | C |
| SITE | 7 | OLD LANDFILL | RI/FS | C |
| SITE | 8 | OLD LANDFILL | RI/FS | C |
| SITE | 9 | S. FORT FIREFIGHTER PIT-N | RI/FS | C |
| SITE | 10 | DPDO AREA | RI/FS | C |

**** LOUISIANA AAP (ARMY)**

| | | | | |
|------|---|--|-------|---|
| SITE | 1 | AREA P | RI/FS | A |
| SITE | 2 | BG5 | RI/FS | A |
| SITE | 3 | CADMIUM WASTE POND/OWTS RETENTION POND | RA | C |
| SITE | 4 | LANDFILL 8 | RI/FS | A |
| SITE | 5 | LANDFILL 3 | RI/FS | A |

**** NAS NEW ORLEANS (NAVY)**

| | | | | |
|------|---|-------------------------------|-------|---|
| SITE | . | FIRE FIGHTING TRAINING AREA | RI/FS | C |
| SITE | 6 | FUEL TANK STRIPPING BURN AREA | RI/FS | C |
| SITE | 9 | LNDFL AT B 704 | RI/FS | C |

**** BARKSDALE AFB (AF)**

| | | | | |
|------|-------|--------------------------------------|-------|---|
| SITE | FT 01 | FPTA 1 | RI/RD | B |
| SITE | WP 12 | POL FLIGHT LINE TANK SLUDGE DISPOSAL | RI | C |

**** ENGLAND AFB (AF)**

| | | | | |
|------|------|-----------------------------|-------|---|
| SITE | D-15 | POL SLUDGE WEATHERING PIT 4 | RA/RD | B |
|------|------|-----------------------------|-------|---|

MASSACHUSETTS

| Site Name | Description | Project | Priority |
|-----------|-------------|---------|----------|
|-----------|-------------|---------|----------|

**** MATERIALS TESTING LABORATORY (ARMY)**

| | | | | |
|------|----|---------------------------|-------|---|
| SITE | 1 | BLDG 312 BE & U LABS | RI/FS | C |
| SITE | 2 | BLDG 43 & FNDR SHOP | RI/FS | C |
| SITE | 3 | ORGAN MATER LAB BLDG 39 | RI/FS | C |
| SITE | 4 | ORGAN MATER LAB BLDG 292 | RI/FS | C |
| SITE | 5 | ORGAN MATER LAB BLDG 97 | RI/FS | C |
| SITE | 6 | BLDG 221 | RI/FS | C |
| SITE | 7 | METALS & CERAM, BLDG 313 | RI/FS | C |
| SITE | 8 | BLDG 214 | RI/FS | C |
| SITE | 9 | BLDG 72 | RI/FS | C |
| SITE | 10 | RADIOACTIVE STOR, BLDG 39 | RI/FS | C |
| SITE | 11 | BLDG 243 | RI/FS | C |
| SITE | 12 | BLDG 97 | RI/FS | C |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

MASSACHUSETTS

| Site Name | Description | Project | Priority |
|---|---------------------------|---------|----------|
| SITE 13 | BLDG 311 | RI/FS | C |
| SITE 14 | I W DISCHARGE TO SEWER | RI/FS | C |
| SITE 15 | BLDG 71 | RI/FS | C |
| SITE 16 | AREA 241 BERYLLIUM WASTES | RI/FS | C |
| SITE 17 | PARDING AREA RUNOFF | RI/FS | C |
| SITE 18 | BLDG 292 | RI/FS | C |
| SITE 19 | BLDG METAL CLEANING SITE | RI/FS | C |
| ** NATICK R&D COMMAND (ARMY) | | | |
| SITE 1 | FIRE PIT AREA | RA | C |
| ** HANSCOM AFB (AF) | | | |
| SITE FT 01 | FIRE TRAINING 1 | RD | B |
| SITE FT 02 | FIRE TRAINING 4 | RA/RD | A |
| SITE LF 02 | SANITARY LANDFILL | RA/RD | A |
| SITE SS 02 | MERCURY SPILL | RA/RD | C |
| SITE WP 01 | JET FUEL TANK SLUDGE | RA/AD | A |
| SITE WP 02 | PAINT WASTE DISPOSAL | RA/RD | A |
| ** OTIS AFB (AF) | | | |
| SITE 03 | 14 SITE STUDY | RI/FS | A |
| SITE SD-1 | SD-1,SD-2,SD-5 CLEAN-UP | RA | A |

MARYLAND

| Site Name | Description | Project | Priority |
|--|---------------------------|---------|----------|
| ** ABERDEEN PRVG GRND, ABERDEEN (ARMY) | | | |
| SITE 1 | J-FIELD | RI/FS | A |
| SITE 2 | CARROL ISLAND | RI/FS | A |
| SITE 3 | GRACES QRTS | RI/FS | A |
| SITE 4 | O-FIELD | RI/FS | A |
| SITE 5 | CANAL CREEK | RI/FS | A |
| SITE 6 | NIKE SITE | RI/FS | A |
| SITE 7 | WHITE PHOSPHORUS DISPOSAL | RI/FS | A |
| SITE 8 | STUDY | RI/FS | A |
| ** BLOSSOM POINT FIELD TEST ACTIVITY (ARMY) | | | |
| SITE 1 | LANDFILL | RI | C |
| SITE 3 | LANDFILL | RI | C |
| SITE 4 | LANDFILL | RI | C |
| SITE 5 | LANDFILL | RI | C |
| SITE 6 | LANDFILL | RI | C |
| SITE 7 | LANDFILL | RI | C |
| SITE 8 | LANDFILL | RI | C |
| ** FORT MEADE (ARMY) | | | |
| SITE 2 | OPERATING LANDFILL | RI/FS | C |
| ** NAS PATUXENT RIVER (NAVY) | | | |
| SITE | AREA SOUTH OF BLDG 665 | RI/FS | B |
| SITE 1 | FISHERY PT LNDFL | RI/FS | C |
| SITE 2 | DISP. NEAR POND 1 | RI/FS | C |
| SITE 4 | HERMANELLE DROP SITE | RI/FS | B |
| SITE 6 | STOR. AREA FUEL FARM | RI/FS | C |
| SITE 7 | SLUDGE AT FFA/STREAM | RI/FS | B |
| SITE 8 | POND SOUTH OF SUPPLY | RI/FS | B |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

MARYLAND

| Site Name | Description | Project | Priority |
|-----------------------------------|--|---------|----------|
| SITE 11 | FORMER SANITARY LANDFILL | RI/FS | B |
| SITE 14 | FUEL FARM | TD | B |
| SITE 15 | B1111/180 FORMER WASHRACK | RI/FS | C |
| SITE 17 | PEST CONTROL B 841 | RI/FS | C |
| SITE 23 | DPDO SALVAGE YD | RI/FS | B |
| SITE 24 | BLDG 114 DISCHARGES TO DRYWELL | RI/FS | B |
| SITE 25 | SOLVENT DROP BEHIND BLDG 114 | RI/FS | B |
| SITE 28 | TRANSFORMER STORAGE B516 | RI/FS | C |
| SITE 29 | B 306/CARBON TETRA CHLORIDE | RI/FS | C |
| ** NIROP CUMBERLAND (NAVY) | | | |
| SITE 1 | NORTHERN RIVERSIDE WASTE DISPOSAL SITE | RI/FS | B |
| SITE 2 | PREVIOUS BURNING GROUND | RI/FS | B |
| SITE 3 | PREVIOUS GROUND BURNING | RI/FS | B |
| SITE 4 | DEVELOPING SOLUTIONS DISPOSAL AREA | RI/FS | B |
| SITE 5 | INERT LANDFILL (NO ORDNANCE) | RI/FS | B |
| SITE 6 | SENSITIVITY TEST AREA SURFACE WATER | RI/FS | B |
| ** NOS INDIAN HEAD (NAVY) | | | |
| SITE 5 | BLDG 731 X-RAY COOLING WATER | RI/FS | B |
| SITE 8 | MERCURY DEPOSITS-BLAZZI PLANT | RI/RA | B |
| SITE 12 | TOWN GUT | RI/FS | B |
| ** NSWC WHITE OAK (NAVY) | | | |
| SITE 2 | APPLE ORCHARD LNDFL | RI/FS | B |
| SITE 4 | CHEM. BURIAL SITE | RI/FS | B |
| SITE 7 | ORDNANCE BURN AREA | RI/FS | B |
| SITE 8 | ABANDON CHEM. DISP. | RI/FS | B |
| SITE 9 | IND. WW DISP. FROM AREA 300 | RI/FS | B |
| SITE 11 | IND. WW DISP. FROM AREA 100 | RI/FS | B |
| ** ANDREWS AFB (AF) | | | |
| SITE 02 | SP-4, FUEL OIL SPILL | RI | B |
| SITE SP-2 | LEAK AREA PD-680 | RI | B |
| SITE SP-6 | BRANDYWINE HOUSING SPILL | RI | B |
| SITE DS 01 | DP-1, BRANDYWINE DPDO STORAGE YARD | RI/RA | A |
| SITE FT 01 | FPA 1 | RI | B |
| SITE FT 02 | FPA 2 | RI | B |
| SITE FT 03 | FT-4, FPTA NO 4 | RI | B |
| SITE JP 04 | SP-3, JP-4 SPILL | RI | B |
| SITE LF 01 | D-1, LANDFILL 1 | RI | B |
| SITE LF 02 | D-3, LANDFILL 3 | RI | B |
| SITE LF 03 | D-4, LANDFILL 4 | RI | B |
| SITE LU 01 | SP-8, MOGAS LEAK | RI | B |
| SITE SP 05 | SP-5, EAST SIDE GAS STATION | RI | B |
| SITE WP 01 | WAP-1, BRANDYWINE RECEIVER AREA | RI | B |

MAINE

| Site Name | Description | Project | Priority |
|--------------------------------|---------------------------|---------|----------|
| ** NAS BRUNSWICK (NAVY) | | | |
| SITE 1 | LANDFILL ORION ST.(NORTH) | RI/FS | A |
| SITE 2 | LANDFILL ORION ST (SOUTH) | RI/FS | A |
| SITE 3 | HW BURIAL AREA | RI/FS | A |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

MAINE

| Site Name | | Description | Project | Priority |
|---------------------------|----|-----------------------------------|---------|----------|
| SITE | 4 | ACID/CAUSTIC PIT | RI/FS | A |
| SITE | 7 | OIL ACID/CAUSTIC PIT | RI/FS | A |
| SITE | 8 | PERIMETER ROAD DISPOSAL SITE | RI/FS | A |
| SITE | 9 | NEPTUNE DR. DISPOSAL SITE | RI/FS | A |
| ** LORING AFB (AF) | | | | |
| SITE | 01 | LNDFL 1 | RI | B |
| SITE | 02 | ZONE 1 LNDFL 2 | RI | A |
| SITE | 03 | LNDFL 5 | RI | B |
| SITE | 04 | RECIEVER SITE | RI | B |
| SITE | 05 | QUARRY SITE | RI/RD | B |
| SITE | 06 | FUEL TANK FARM | RI | B |
| SITE | 07 | FDTA | RI | B |
| SITE | 08 | RR MAIN. SITE | RI | B |
| SITE | 09 | E. LANDFILL | RI | C |
| SITE | 10 | FLIGHTLINE DRAINAGE DITCH, ZONE 2 | RI/FS | B |
| SITE | 11 | NOSE DOCK AREA | RI | B |
| SITE | 12 | FLIGHTLINE AREA 2 | RI | B |
| SITE | 13 | BX GAS STATION | RI | B |
| SITE | 14 | FUEL DROP SITE | RI | C |
| SITE | 16 | E. GATE WASTE STOR. TANK | RI | C |
| SITE | 17 | UNDRGRND TRANSFORMER SITE | RI | B |
| SITE | 18 | FLY ASH DISP. AREA | RI | C |
| SITE | 19 | COAL STORAGE AREA | RI | C |

MICHIGAN

| Site Name | | Description | Project | Priority |
|-----------------------------------|-------|-----------------------------------|---------|----------|
| ** DETROIT ARSENAL (ARMY) | | | | |
| SITE | 2 | BOUNDRY POL SITE | RI/RA | C |
| ** K.L.SAWYER (AF) | | | | |
| SITE | 01 | POL AREA | RI | C |
| SITE | DP-2 | HOSPITAL DRAINAGE POND | RI | B |
| SITE | DP-3 | NORTHSIDE SHOP DRAINAGE PIT | RI | B |
| SITE | FT 01 | FPTA-1 | RI | B |
| SITE | LF 01 | LANDFILL 1 | RI | B |
| SITE | LF 02 | LANDFILL 2 | RI | B |
| SITE | OT 01 | WALLIS TERM. ANNNX | RI | B |
| ** PHELPS COLLINS ANG (AF) | | | | |
| SITE | 2 | MULTISITES | RD | B |
| ** WURTSMITH AFB (AF) | | | | |
| SITE | D-06 | D-06 LANDFILL NORTH AREA | RI | C |
| SITE | SP-3 | SP-3 FUEL SPILL AT POL STOR. AREA | RA | B |
| SITE | FT-01 | FT-01,FTA-1 | RI | C |
| SITE | FT-02 | FT-02,FTA-2 | RI | C |
| SITE | SP-01 | SP-01,SP-02,SP-03,SP-05,SP-07 | RI | C |
| SITE | SP-08 | SP-08,SP-09,SP-10,SP-11,SP-12 | RI | C |
| SITE | SP-14 | SP-14,SP-17,SS-01 | RI | C |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

MINNESOTA

| Site Name | | Description | Project | Priority |
|------------------------------------|------|-----------------------------|---------|----------|
| ** TWIN CITIES AAP (ARMY) | | | | |
| SITE | 1 | SLUDGE AND SUMP ANALYSIS | RI/RA | A |
| SITE | 2 | A-L | RI/RA | A |
| SITE | 3 | 129-3 | RI/RA | A |
| SITE | 4 | 129-5 | RI/RA | A |
| SITE | 5 | 129-15 | RI/RA | A |
| SITE | 6 | A | RI/RA | A |
| SITE | 7 | B | RI/RA | A |
| SITE | 8 | C | RI/RA | A |
| SITE | 9 | D | RI/RA | A |
| SITE | 10 | E | RI/RA | A |
| SITE | 11 | F | RI/RA | A |
| SITE | 12 | G | RI/RA | A |
| SITE | 13 | H | RI/RA | A |
| SITE | 14 | I | RI/RA | A |
| SITE | 15 | J | RI/RA | A |
| ** NIROP MINNEAPOLIS (NAVY) | | | | |
| SITE | 1 | WASTE DISPOSAL TRENCHES | RI/FS | B |
| SITE | 2 | WASTE DISPOSAL PITS | RI/FS | B |
| SITE | 3 | AREA BENEATH THE NIROP BLDG | RI/FS | B |
| ** MINN ST. PAUL IAP (AF) | | | | |
| SITE | 01 | SMALL ARMS RANGE LANDFILL | FS | A |
| SITE | 04 | MOGAS SPILL | FS | C |
| SITE | 05 | POL SPILL AREA | FS | B |
| SITE | 06 | LIQ. SLUDGE BURIAL PIT | FS | C |
| SITE | 07 | FUEL SPILL AREA | RD | B |
| SITE | 08 | HW STORAGE AREA | FS | B |
| SITE | P-04 | NAVAL BLDG HTG FUEL SPILL | FS | C |

MISSOURI

| Site Name | | Description | Project | Priority |
|--|-------|----------------------------------|---------|----------|
| ** LAKE CITY AAP (ARMY) | | | | |
| SITE | 1 | LANDFILL AND OTHERS | RI/FS | A |
| ** WELDON SPRING TRAINING AREA (ARMY) | | | | |
| SITE | 1 | DOE/DA MOU | RI/FS | A |
| ** WHITEMAN AFB (AF) | | | | |
| SITE | OS 01 | DRUM STORAGE BLDG 7-9 | RI | C |
| SITE | FT 01 | FOTA | RI | B |
| SITE | FT 02 | FPTA 2 | RI | C |
| SITE | LF 01 | LANDFILL 1 | RI | C |
| SITE | LF 02 | LANDFILL 2 | RI | C |
| SITE | LF 03 | LANDFILL 3 | RI | C |
| SITE | LF 04 | LANDFILL 4 | RI | C |
| SITE | LF 05 | LANDFILL 5 | RI | B |
| SITE | LU 01 | FLIGHTLINE UNDERGROUND FUEL TANK | RI | C |
| SITE | OT 01 | CHLORDANE APPLICATION AREAS | RI | B |
| SITE | OT 02 | STORMWATER DRAINAGE, WASH RACK | RI | C |
| SITE | WP 01 | PESTICIDE DISPOSAL AREA | RI | B |
| SITE | WT 01 | SODIUM CHROMATE TREATMENT AT WTP | RI | B |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

MISSISSIPPI

| Site Name | | Description | Project | Priority |
|-------------------------------|-------|----------------------------------|---------|----------|
| ** CBC GULFPORT (NAVY) | | | | |
| SITE | . | RUBBLE DISPOSAL AREA | RI/FS | B |
| SITE | . | MCALLISTER PT LANDFILL | RI/FS | B |
| SITE | 1 | FIRE FIGHTING TRAINING AREA | RI/FS | B |
| SITE | 2 | DISASTER RECOVERY DISPOSAL AREA | RI/FS | B |
| SITE | 3 | WW II LANDFILL | RI/FS | B |
| SITE | 4 | NW LANDFILL | RI/FS | B |
| SITE | 5 | GOLF COURSE LANDFILL | RI/FS | B |
| SITE | 6 | HEAVY EQ. TRAINING AREA LANDFILL | RI/FS | B |
| ** COLUMBUS AFB (AF) | | | | |
| SITE | LU 01 | LU01-10 | RI/FS | B |
| ** KEESLER AFB (AF) | | | | |
| SITE | 01 | LANDFILL 1 | RI | C |
| SITE | FT 01 | FPTA AND LANDFILL 3 | RI | B |
| SITE | LF 02 | LANDFILL 2 | RI | B |
| SITE | LU 01 | LU01 | RI/FS | C |
| SITE | LU 02 | LU02 | RI/FS | C |
| SITE | OT 01 | TRANSFORMER STORAGE | RI | B |
| SITE | WP 01 | ETCHING SHOP DRAINAGE PIT | RI | B |
| SITE | WP 02 | PESTICIDES RINSE PIT | RI | B |
| SITE | WP 03 | SLUDGE BURIAL SITE AT LF 1 | RI | B |
| SITE | WP 04 | TFL SLUDGE BURIAL AT ANNEX 1 | RI | B |

NORTH CAROLINA

| Site Name | | Description | Project | Priority |
|------------------------------------|----|------------------------------------|---------|----------|
| ** MCAS CHERRY POINT (NAVY) | | | | |
| SITE | 1 | LANDFILL | RI/FS | B |
| SITE | 2 | LANDFILL | RI/FS | B |
| SITE | 4 | LANDFILL | RI/FS | B |
| SITE | 10 | OLD SANITARY LANDFILL | RI/FS | B |
| SITE | 15 | AREA AND DITCH BEHIND NALF | RI/FS | B |
| SITE | 16 | LANDFILL AT SANDY BRANCH | RI/FS | B |
| SITE | 17 | DPOO STORAGE AREA | RI/FS | B |
| SITE | 21 | BORROW PIT/LANDFILL | RI/FS | B |
| ** MCB CAMP LEJEUNE (NAVY) | | | | |
| SITE | . | NEW RIVER OFFICER'S HOUSING AREA | RI/FS | B |
| SITE | . | RAPID REFUELING SITE | RI/FS | B |
| SITE | 1 | FRENCH CREEK LIQUIDS DISPOSAL AREA | RI/FS | B |
| SITE | 2 | FORMER NURSERY/DAY CARE CENTER | RI/FS | B |
| SITE | 6 | STORAGE LOTS 201 AND 203 | RI/FS | B |
| SITE | 9 | FIRE FIGHTING TRAINING PIT | RI/FS | B |
| SITE | 21 | TRANSFORMER STORAGE LOT 140 | RI/FS | B |
| SITE | 22 | INDUSTRIAL TANK FARM AREA | RI/FS | B |
| SITE | 24 | INDUSTRIAL FLY ASH DUMP | RI/FS | B |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

NORTH CAROLINA

| Site Name | | Description | Project | Priority |
|-------------------------|-------|----------------------------------|---------|----------|
| SITE | 28 | HADNOT POINT BURN DUMP | RI/FS | B |
| SITE | 30 | SNEADS FERRY ROAD FUEL TANK AREA | RI/FS | B |
| SITE | 35 | CAMP GEIGER AREA FUEL FARM | RI/FS | C |
| SITE | 36 | CAMP GEIGER AREA DUMP | RI/FS | C |
| SITE | 41 | CAMP GEIGER DUMP | RI/FS | B |
| SITE | 45 | UNDERGROUND AVGAS STORAGE | RI/FS | B |
| SITE | 48 | NEW RIVER HOUSING DUMPSITE | RI/FS | B |
| SITE | 54 | CRASH CREW FIRE TRAINING | RI/FS | B |
| SITE | 68 | RIFLE RANGE DUMP | RI/FS | B |
| SITE | 69 | RIFLE RANGE CHEMICAL DUMP | RI/FS | B |
| SITE | 73 | LIQUID DISPOSAL | RI/FS | B |
| SITE | 74 | MESS HALL GREASE PIT AREA | RI/FS | B |
| SITE | 75 | BASKETBALL COURT SITE | RI/FS | B |
| SITE | 76 | CURTIS ROAD SITE | RI/FS | B |
| ** POPE AFB (AF) | | | | |
| SITE | FT 01 | FPTA-4 | RI | B |
| SITE | LF 01 | HARDFILL 2 | RI | B |
| SITE | LF 02 | HARDFILL 8 | RI | B |
| SITE | SS 01 | POL BULK STORAGE | RI | B |
| SITE | SS 02 | TIRE SHOP WASTE | RI | B |
| SITE | WP 01 | POL SLUDGE DISPOSAL | RI | B |

NORTH DAKOTA

| Site Name | | Description | Project | Priority |
|--------------------------------|-------|-------------------|---------|----------|
| ** GRAND FORKS AFB (AF) | | | | |
| SITE | FT 01 | FIRE TRAINING PIT | RI | C |
| SITE | LF 01 | LANDFILL AREA | RI | C |
| SITE | MU 01 | EOD AREA | RI | C |

NEBRASKA

| Site Name | | Description | Project | Priority |
|---------------------------------|-------|---------------------------|---------|----------|
| ** CORNHUSKER AAP (ARMY) | | | | |
| SITE | 2 | EARTHEN IMPOUNDMENTS (56) | RA | A |
| ** OFFUTT AFB (AF) | | | | |
| SITE | 04 | SPILL SITE 4 | RI | B |
| SITE | OS 01 | HAZARDOUS WASTE YARD | RI | B |
| SITE | FT 01 | FIRE TRAINING PIT 1 | RI | B |
| SITE | FT 02 | FIRE TRAINING PIT 2 | RI | B |
| SITE | FT 03 | FIRE TRAINING PIT 3 | RI | B |
| SITE | LF 01 | LANDFILL 1 | RI | B |
| SITE | LF 02 | LANDFILL 2 | RI | B |
| SITE | LF 03 | LANDFILL 3 | RI | B |
| SITE | LF 04 | LANDFILL 4 | RI | B |
| SITE | LF 05 | LANDFILL 5 | RI | B |
| SITE | OT 01 | HARDFILL 4 | RI | B |
| SITE | OT 02 | HARDFILL 5 | RI | B |
| SITE | OT 03 | HARDFILL 6 | RI | B |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

NEBRASKA

| Site Name | Description | Project | Priority |
|------------|------------------------|---------|----------|
| SITE RW 01 | RADIOACTIVE WASTE SITE | RI | C |
| SITE SS 01 | SPILL SITE 1 | RI | B |
| SITE SS 02 | SPILL SITE 2 | RI | C |

NEW HAMPSHIRE

| Site Name | Description | Project | Priority |
|---------------------------------|--|---------|----------|
| ** NSY PORTSMOUTH (NAVY) | | | |
| SITE 1 | JAMAICA ISLAND LNDFL | RI/FS | B |
| ** PEASE AFB (AF) | | | |
| SITE 02 | LANDFILL 2 | RI | C |
| SITE 03 | LANDFILL 3 | RI | C |
| SITE 04 | LANDFILL 4 | RI | C |
| SITE 05 | LANDFILL 5 | RI | B |
| SITE 06 | LANDFILL 6 | RI | C |
| SITE 07 | FPTA 1 | RI | C |
| SITE 08 | FPTA 2 | RI/RD | A |
| SITE 10 | FUEL TANK SLUDGE DISP. | RI | C |
| SITE 12 | MUNITIONS STOR. AND SOLVENT DISP. AREA | RI | B |
| SITE 13 | BULK FUEL STOR.SPILL | RI | B |
| SITE 14 | ZONE 6 FUEL LINE SPILL | RI | C |
| SITE 15 | IND. SHOP / PARKING APRON | RI | C |
| SITE 17 | CONSTR. RUBBLE DUMP 2 | RI | C |
| SITE 19 | GRAFTON DITCH | RI | C |
| SITE 20 | NEW FIELD DITCH | RI | C |
| SITE 21 | MCINTYRE BROOK | RI | C |
| SITE 11A | FMS EQUIP/ CLEANING | RI | C |
| SITE 11B | CONSTRUCTION RUBBLE | RI | B |
| SITE LF 01 | LANDFILL 1 SITE 1 | RI | B |

NEW JERSEY

| Site Name | Description | Project | Priority |
|---------------------------|---------------------------|---------|----------|
| ** FORT DIX (ARMY) | | | |
| SITE 3 | TCE DUMPSITE | RI/FS | A |
| SITE 4 | NPL LANDFILL | RI/FS | A |
| SITE 5 | DIO MAINTENANCE | RI/FS | A |
| SITE 6 | DIO TRANS DIV MOTOR POOL | RI/FS | A |
| SITE 7 | OPT AVIATION DIV | RI/FS | A |
| SITE 8 | DEH MOTOR POOL | RI/FS | A |
| SITE 9 | AAFES PX SERVICE STATION | RI/FS | A |
| SITE 10 | 5TH BDE MOTOR POOL | RI/FS | A |
| SITE 11 | 5TH BDE MAINTENANCE | RI/FS | A |
| SITE 12 | 2/5 BN MOTOR POOL | RI/FS | A |
| SITE 13 | 3/5 BN MOTOR POOL | RI/FS | A |
| SITE 14 | 78TH DIV RESERVES ECS 26 | RI/FS | A |
| SITE 15 | OPCA AUTO CRAFT SHOP | RI/FS | A |
| SITE 16 | 511/753TH M.P. MOTOR POOL | RI/FS | A |
| SITE 17 | 556TH MED AMB MOTOR POOL | RI/FS | A |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

NEW JERSEY

| Site Name | | Description | Project | Priority |
|---|----|------------------------------------|---------|----------|
| SITE | 18 | 39TH ENGR MOTOR POOL | RI/FS | A |
| ** MILITARY OCEAN TERMINAL, BAYONNE (ARMY) | | | | |
| SITE | 1 | LANDFILL | RI/FS | C |
| SITE | 3 | VEHICLE MAINTANENCE AREA | RI/FS | C |
| SITE | 4 | UNDERGROUND STOR TANK | RI/FS | C |
| SITE | 5 | UNDERGROUND STOR TANKS | RI/FS | C |
| SITE | 6 | UNDERGROUND STOR TANKS | RI/FS | C |
| SITE | 7 | UNDERGROUND STOR TANKS | RI/FS | C |
| SITE | 8 | UNDERGROUND STOR TANKS | RI/FS | C |
| SITE | 9 | UNDERGROUND STOR TANKS | RI/FS | C |
| SITE | 10 | UNDERGROUND STOR TANKS | RI/FS | C |
| SITE | 11 | UNDERGROUND STOR TANKS | RI/FS | C |
| SITE | 12 | UNDERGROUND STOR TANKS | RI/FS | C |
| SITE | 13 | UNDERGROUND STOR TANKS | RI/FS | C |
| SITE | 14 | UNDERGROUND STOR TANKS | RI/FS | C |
| SITE | 15 | UNDERGROUND STORAGE TANKS | RI/FS | C |
| SITE | 16 | UNDERGROUND STOR TANKS | RI/FS | C |
| ** PICATUNNY ARSENAL (ARMY) | | | | |
| SITE | 1 | GUN COTTON PIPELINE | RA | C |
| SITE | 2 | BLDG 24 | RI/FS | C |
| SITE | 3 | SHELL BURIAL AREA 83150 | RI/FS | B |
| SITE | 4 | CHEMICAL BURIAL PIT | RI/FS | B |
| SITE | 5 | BLDG 95 | RI/RA | C |
| SITE | 7 | HAZARDOUS WASTE PILE | RA | C |
| SITE | 9 | ROCKET FUEL TEST G-2 AREA | RI/FS | B |
| SITE | 10 | ROCKET FUEL TEST G-1 AREA | RI/FS | B |
| SITE | 11 | ROCKET FUEL TEST AREA | RI/FS | B |
| SITE | 12 | ROCKET FUEL TEST AREA | RI/FS | B |
| SITE | 13 | SHELL BURIAL AREA 83100 | RI/FS | B |
| SITE | 14 | MUNITIONS AND PROPELLANT AREA | RI/FS | B |
| SITE | 15 | MUNITIONS TEST RANGE | RI/FS | B |
| SITE | 16 | MUNITIONS WASTE PIT | RI/FS | B |
| SITE | 17 | MUNITIONS TEST AREA | RI/FS | B |
| SITE | 19 | MUNITIONS TEST DEBRIS | RI/FS | B |
| SITE | 20 | TETRYL PITS | RI/FS | B |
| SITE | 21 | TETRYL PITS | RI/FS | B |
| SITE | 22 | PYROTECHNICAL DEMO AREA | RI/FS | B |
| SITE | 23 | PYROTECHNIC TEST RANGE | RI/FS | B |
| SITE | 25 | SANITARY LANDFILL | RI/FS | B |
| SITE | 26 | SANITARY LANDFILL | RI/FS | B |
| SITE | 27 | DEEDGE PILE | RI/FS | B |
| SITE | 28 | MUNITIONS TEST AREA | RI/FS | B |
| SITE | 29 | POST FARM LANDFILL | RI/FS | B |
| ** NAEC LAKEHURST (NAVY) | | | | |
| SITE | | BOMARK SITE | RI/FS | A |
| SITE | 1 | BLUMP CRASH SITE | RI/FS | A |
| SITE | 2 | RSTS TRACK 2 | RI/FS | A |
| SITE | 3 | DRAINAGE DITCH | RI/FS | A |
| SITE | 4 | DEADLOAD MAINTENANCE SHOP | RI/FS | A |
| SITE | 5 | ARRESTING ENGINE TRACK 2, BLDG 371 | RI/FS | A |
| SITE | 6 | CATAPULT TEST FAC. | RI/FS | A |

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

NEW JERSEY

| Site Name | | Description | Project | Priority |
|---------------------------------------|----|---------------------------------------|---------|----------|
| SITE | 7 | CATAPULT TEST STOR AREA | RI/FS | A |
| SITE | 8 | ARRESTING ENGINE TRACK, BLDG 529 | RI/FS | A |
| SITE | 9 | HANGAR 2 DISPOSAL AREA | RI/FS | A |
| SITE | 10 | FUEL TRUCK STOR AREA | RI/FS | A |
| SITE | 11 | HANGAR 5 DISPOSAL AREA | RI/FS | A |
| SITE | 12 | FUEL STOR FAC 141 | RI/FS | A |
| SITE | 13 | FUEL FARM NO. 125 | RI/FS | A |
| SITE | 14 | OLD FIRE FIGHTING SCHOOL | RI/FS | A |
| SITE | 15 | BLDG 562 | RI/FS | A |
| SITE | 16 | NATTC FIRE FIGHTING TRAINING AREA | RI/FS | A |
| SITE | 17 | FUEL FARM NO 196 | RI/FS | A |
| SITE | 18 | EXCHANGE GAS STATION | RI/FS | A |
| SITE | 19 | SATS CATAPULT (7401 TEST SITE) | RI/FS | A |
| SITE | 20 | TETRAETHYL LEAD DISPOSAL SITE | RI/FS | A |
| SITE | 21 | JET CAR MAINTENANCE SHOP | RI/FS | A |
| SITE | 22 | JET BLAST DEFLECTOR | RI/FS | A |
| SITE | 23 | DISPOSAL AREA | RI/FS | A |
| SITE | 24 | CATAPULT TEST SITE 7419 | RI/FS | A |
| SITE | 25 | TEST DEPT DISPOSAL AREA | RI/FS | A |
| SITE | 26 | CONTRACTOR DISPOSAL AREA | RI/FS | A |
| SITE | 27 | RSTS SCRAP SITE | RI/FS | A |
| SITE | 28 | WEST FIELD HANGAR AREA | RI/FS | A |
| SITE | 29 | ORIGINAL BASE LANDFILL | RI/FS | A |
| SITE | 30 | RSTS TRACK 4 RECOVERY END | RI/FS | A |
| SITE | 31 | SANITARY LANDFILL | RI/FS | A |
| SITE | 32 | RSTS LAUNCHING END | RI/FS | A |
| SITE | 33 | REFUELER REPAIR SHOP DRYWELL | RI/FS | A |
| SITE | 34 | PARACHUTE JUMP CIRCLE | RI/FS | A |
| SITE | 35 | HELICOPTER REFUELING AREA | RI/FS | A |
| SITE | 36 | HANGAR 1 DISPOSAL AREA | RI/FS | A |
| SITE | 37 | FUEL DISPOSAL AREA | RI/FS | A |
| SITE | 38 | OIL SKIMMING AND SLUDGE DISPOSAL AREA | RI/FS | A |
| SITE | 39 | POL DISPOSAL AT HANGAR 3 | RI/FS | A |
| SITE | 40 | SOIL STABILIZATION FIELD TEST | RI/FS | A |
| SITE | 42 | BASE LANDFILL | RI/FS | A |
| SITE | 44 | PCB STOR AND TESTING AREA | RI/FS | A |
| ** NAPC TRENTON (NAVY) | | | | |
| | | BAROMETRIC WELL | | B |
| SITE | 1 | BRINE HANDLING AND WEST END DRAINAGE | RI/FS | B |
| SITE | 2 | FIRE FIGHTING AREA | RI/FS | B |
| SITE | 3 | SLUDGE DISPOSAL | RI/FS | B |
| SITE | 4 | BLDG 41 OVERHEAD FUEL LEAK | RI/FS | B |
| SITE | 5 | BLDG 42 OVERHEAD FUEL LEAK | RI/FS | B |
| SITE | 6 | OIL CONTAM NEAR BLDG 34 | RI/FS | B |
| SITE | 7 | FORMER MOGAS TANK LEAK | RI/FS | B |
| ** NWS EARLE COLTS NECK (NAVY) | | | | |
| SITE | | UNNAMED TRIBUTORS | RI/FS | A |
| SITE | 2 | ORDNANCE DEMILITARIZATION SITE | RI/FS | A |
| SITE | 3 | LANDFILL SW OF "F" | RI/FS | A |
| SITE | 4 | LANDFILL WEST OF "D" | RI/FS | A |
| SITE | 5 | LANDFILL WEST OF ARMY BRIGADE | RI/FS | A |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

NEW JERSEY

| Site Name | Description | Project | Priority |
|----------------------------|----------------------|---------|----------|
| ** MCGUIRE AFB (AF) | | | |
| SITE 01 | BLDG 1123 SPILL SITE | RA | C |
| SITE 02 | BLDG 792 SPILL SITE | RA | C |

NEW MEXICO

| Site Name | Description | Project | Priority |
|---------------------------------------|--------------------------------|---------|----------|
| ** AFP NO.83, ALBUQUERQUE (AF) | | | |
| SITE S1 | S1 | RI/FS | C |
| SITE S2 | S2 | RI/FS | C |
| SITE S3 | S3 | RI/FS | C |
| SITE S4 | S4 | RI/FS | C |
| SITE S5 | S5 | RI/FS | C |
| ** CANNON AFB (AF) | | | |
| SITE 01 | LANDFILL 1 | RI | B |
| SITE 11 | ENGINE TEST CELL | RI | B |
| SITE 15 | AGE DRAINAGE DITCH | RI | B |
| ** HOLLAMAN AFB (AF) | | | |
| SITE 17 | BX SERVICE STATION FUEL LEAK | RI/RO | B |
| ** KIRTLAND AFB (AF) | | | |
| SITE FT 01 | FIRE TRAINING PIT | RA/RO | C |
| SITE LF 01 | LANDFILL 1 | RA | B |
| SITE LF 02 | LANDFILL 2 RIP/RAP | FS/RO | B |
| SITE LF 06 | RADIOACTIVE BURIAL SITE NO. 11 | FS | C |

NEVADA

| Site Name | Description | Project | Priority |
|--------------------------------|------------------------------|---------|----------|
| ** RANTHORNE AAP (ARMY) | | | |
| SITE 1 | TEST RANGE | RI/FS | C |
| SITE 3 | SURFACE IMPOUNDMENT AREA 101 | RI/FS | C |
| SITE 5 | MUSTARD GAS DISPOSAL AREA | RI/FS | C |
| SITE 6 | SURFACE IMPOUNDMENT AREA 103 | | C |
| SITE 7 | TEST RANGE | RI/FS | C |
| SITE 8 | OLD BOMB AREA | RI/FS | C |
| SITE 9 | OB/OD AREA | RI/FS | C |

NEW YORK

| Site Name | Description | Project | Priority |
|----------------------------|---------------------------------------|---------|----------|
| ** FORT DRUM (ARMY) | | | |
| SITE 1 | BLOG 1595 FUEL DISPENSING/SPRING AREA | RI/FS | C |
| SITE 2 | CLEANUP AT OLD SANITARY LANDFILL | RI/RA | C |
| SITE 3 | MONITORING | RI | C |
| ** SENECA AD (ARMY) | | | |
| SITE 1 | DEMOLITION GROUNDS PAD B | RA | C |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

NEW YORK

| Site Name | Description | Project | Priority |
|--|-----------------------------------|---------|----------|
| ** AFP NO.38 (AF) | | | |
| SITE 06 | WASTE SITE 1 | RI/FS | B |
| SITE 07 | WASTE SITE 2 | RI/FS | B |
| SITE 08 | WASTE SITE 3 | RI/FS | B |
| SITE 09 | WASTE SITE 5 | RI/FS | B |
| SITE S1 | S1 | RA | C |
| SITE S2 | S2 | RA | C |
| SITE S3 | S3 | RA | C |
| SITE S4 | S4 | RA | C |
| ** AFP NO.59, JOHNSON CITY (AF) | | | |
| SITE S1 | S1 | RI/FS | C |
| SITE S2 | S2 | RI/FS | C |
| SITE S3 | S3 | RI/FS | C |
| ** GRIFFISS AFB (AF) | | | |
| SITE T9 | CONTAMINATED AREA NEAR T9 | RA | C |
| SITE B20 | CONTAMINATED AREA NEAR BLDG 20 | RA | C |
| SITE B26 | BLDG 26 UST | RA | C |
| SITE NP-1 | UT AT NEWPORT AREA | RA | C |
| SITE OS 01 | BULK FUEL STORAGE AREA | RU | C |
| SITE FT 01 | FPTA | RA/RO | C |
| SITE OT 04 | DRYWELL BLDG 3 | RA | A |
| ** NIAGARA FALLS IAP (AF) | | | |
| SITE OS 02 | BLDG 202 DRUM STORAGE | RI | B |
| SITE OS 03 | BLDG 850 DRUM STORAGE | RI | C |
| SITE OS 04 | MW DRUM STORAGE | RI | B |
| SITE FT 01 | FPTA 1 | RI | C |
| SITE FT 02 | FPTA 2 | RI | C |
| SITE FT 03 | FPTA 3 | RI | B |
| SITE LF 01 | LANDFILL | RI | B |
| SITE LU 01 | 8X MOGAS LEAK | RI | B |
| SITE OT 01 | BLDG 600 PIPELINE LEAK, JP-4 | RI | B |
| SITE OT 02 | POL TANK A, JP-4 | RI | B |
| SITE OT 03 | TANK C, JP-4 LEAK | RI | B |
| SITE SS 01 | JP-4 TANK TRUCK SPILL | RI | B |
| ** PLATTSBURGH AFB (AF) | | | |
| SITE D-4 | LANDFILL, SOUTH OF FPTA | RI | B |
| SITE SP-2 | HEATING FUEL SPILL, BLDG 205 | RI | C |
| SITE SP-3 | JP-4 AND SOLVENT SPILLS APRON | RI | P |
| SITE SP-5 | JP-4 SPILL, INSULATION VALVE | RI | C |
| SITE SP-6 | JP-4 SPILLS, BLDG 2542 | RI | B |
| SITE SP-7 | OPDO FUEL OIL SPILL | RI | C |
| SITE SP-8 | FUEL SPILLS, POL AREA | RI | B |
| SITE SP-9 | SOLVENT SPILLS, MMS COMPLEX | RI | B |
| SITE LF 01 | FT-1 FIRE TRAINING AREA | RI | B |
| SITE SP-10 | JP-4 SPILLS, ALERT AREA | RI | B |
| SITE SP-11 | ENGINE OIL SPILLS, CAPEHART MSG | RI | C |
| SITE SP-12 | NEW PRODUCT DRUM STORAGE AREA | RI | C |
| SITE SP-13 | NEW AND USED SOLVENT DRUM STORAGE | RI/RA | C |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

OHIO

| Site Name | Description | Project | Priority |
|-------------------------------------|------------------------------------|---------|----------|
| ** RAVENNA A&P (ARMY) | | | |
| SITE 11 | INACTIVE BG AREA | RI/FS | C |
| ** AFP NO.36, EVANDALE (AF) | | | |
| SITE LU 01 | UNDERGROUND FUEL LEAK NW OF BLDG 8 | RA/RD | B |
| SITE SS 01 | FUEL SPILL | RI/FS | B |
| ** AFP NO.85, COLUMBUS (AF) | | | |
| SITE 02 | COAL PILE LEACHATE SITE | RI/FS | C |
| SITE 03 | PCB SPILL SITE | RI/FS | B |
| SITE 04 | FOTA | RI/FS | B |
| SITE 05 | MASONS RUN OIL/FUEL SPILL | RI/FS | B |
| SITE 08 | JAMES ROAD HAZ WASTE STOR PAD | RI/FS | B |
| SITE 3&9 | NE BLDG FUEL TANK | RI/FS | C |
| ** NEWARK AFS (AF) | | | |
| SITE AT-1 | ACID STORAGE TANK | RI | B |
| SITE SP-1 | BATTERY ACID AND SOLVENT SPILL | RI | B |
| SITE SP-3 | FREON SPILL, SW OF BLDG 4 | RI | B |
| SITE SP-4 | FREON SPILL, VSTRS AND CONTRACTORS | RI | B |
| ** RICKENBACKER ANG (AF) | | | |
| SITE 95 | MULTIPLE SITES | FS | C |
| SITE S-1 | S-1 | RI/FS | C |
| SITE S-2 | S-2 | RI/FS | C |
| SITE S-3 | S-3 | RI/FS | C |
| SITE S-4 | S-4 | RI/FS | C |
| SITE S-5 | S-5 | RI/FS | C |
| SITE S-6 | S-6 | RI | B |
| SITE S-9 | S-9 | RI | B |
| SITE S-10 | S-10 | RI | B |
| SITE S-12 | S-12 | RI | B |
| SITE S-14 | S-14 | RI | B |
| SITE S-15 | S-15 | RI | B |
| SITE S-16 | S-16 | RI | B |
| SITE S-17 | S-17 | RI | B |
| ** WRIGHT-PATTERSON AFB (AF) | | | |
| SITE 03 | AREAS A, B, AND C | RA/RD | A |
| SITE FT 01 | FOTA 1 | RI | A |
| SITE FT 02 | FOTA 2 | RI | A |
| SITE FT 34 | FOTA 3 AND 4, SPILL #1 | RI | A |
| SITE LF 01 | LANDFILL 1 | RI | A |
| SITE LF 02 | LANDFILL 10 | RI | A |
| SITE LF 03 | LANDFILL 11 | RI | A |
| SITE LF 04 | LANDFILL 12 | RI | A |
| SITE LF 05 | LANDFILL 13 | RI | A |
| SITE LF 06 | LANDFILL 2 | RI | A |
| SITE LF 07 | LANDFILL 5 TWIN LAKES | RI | A |
| SITE LF 08 | LANDFILL 8 | RI | A |
| SITE LF 09 | LANDFILL 9, SANDY HILL | RI | A |
| SITE LF 10 | LANDFILL 3, 4, 6 AND 7 | RI | A |
| SITE OT 01 | COAL STORAGE PILE | RI | A |
| SITE OT 02 | CENTRAL HEAT PLANT 1, BLDG 66 | RI | A |
| SITE OT 03 | CENTRAL HEATING PLANT 2 | RI | A |
| SITE OT 04 | CENTRAL HEATING PLANT 3, BLDG 170 | RI | C |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

OHIO

| Site Name | Description | Project | Priority |
|--|------------------------------------|---------|----------|
| SITE OT 05 | CENTRAL HEATING PLANT 4, BLDG 1240 | RI | C |
| SITE OT 06 | CENTRAL HEATING PLANT 5, BLDG 770 | RI | C |
| SITE SS 02 | SPILL 2 | RI | A |
| SITE SS 03 | SPILL 3 | RI | A |
| ** DCSC COLUMBUS (DEFENSE LOGISTICS AGENCY) | | | |
| SITE 1 | TRANSFER STORAGE AREA | RI/FS | A |
| ** DFSP ESCANABA (DEFENSE LOGISTICS AGENCY) | | | |
| SITE 1 | TANK FARM | RI | A |

OKLAHOMA

| Site Name | Description | Project | Priority |
|--------------------------------|------------------------------------|---------|----------|
| ** McALESTER AAP (ARMY) | | | |
| SITE 1 | SURFACE WATER | RI/FS | C |
| ** AFP NO.3, TULSA (AF) | | | |
| SITE A | H.W. WASTE STORAGE | RI/FS | B |
| SITE B | H.W. STOR. AREA | RI/FS | B |
| SITE C | H.W. STORAGE | RI/FS | B |
| SITE FT 01 | FOTA | RI/FS | B |
| SITE LF 01 | HARDFILL AREAS | RI/FS | B |
| SITE RW 01 | LOW LEVEL RADIOACTIVE DISP. AREA | RI/FS | B |
| ** ALTUS AFB (AF) | | | |
| SITE LF 1 | LF 1 INVESTIGATION | RI | B |
| SITE LF 2 | LF 2 INVESTIGATION | RI | B |
| SITE LF 3 | LF 3 INVESTIGATION | RI | B |
| SITE FT 01 | FTA 3 | RI | B |
| SITE FT 02 | FPA 1 | RI | B |
| SITE FT 03 | FTA 2 | RI | B |
| SITE FT 04 | FTA 4 | RI | B |
| SITE WP 01 | INDUSTRIAL WASTE LAGOON (WASHHACK) | RI/RD | B |
| SITE WP 02 | AIRCRAFT WASHRACK POND | RI | B |
| ** TINKER AFB (AF) | | | |
| SITE 01 | IWTP TANKS | FS | C |
| SITE 02 | POL TANK FARM/AUST | RI/RA | A |
| SITE 02 | FOTA 2 | RI/FS | A |
| SITE 03 | WELLS 18 AND 19 | RI | A |
| SITE FT 01 | FOTA 1 | RI/FS | A |
| SITE LF 01 | LANDFILL 1 | RI/FS | A |
| SITE LF 02 | LANDFILL 2 | RI/FS | A |
| SITE LF 03 | LANDFILL 3 | RI/FS | A |
| SITE LF 04 | LANDFILL 4 | RI/FS | A |
| SITE LF 05 | LANDFILL 5 | RI/FS | A |
| SITE LF 06 | LANDFILL 6 | RI/FS | A |
| SITE OT 01 | BLDG 3001 | RI/RD | A |
| SITE OT 02 | CRUTCHO CREEK | RI/FS | A |
| SITE OT 03 | EAST SOLDIER'S CREEK | RI | A |
| SITE OT 04 | FACILITY 1123 | RI | A |
| SITE OT 06 | RWDS 1022E | RI | A |
| SITE OT 07 | RWDS 1030W | RI/FS | A |
| SITE OT 08 | RWDS 201S | RI/FS | A |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

OKLAHOMA

| Site Name | Description | Project | Priority |
|------------|-------------|---------|----------|
| SITE OT 09 | RWDS 62598 | RI | A |

OREGON

| Site Name | Description | Project | Priority |
|------------------------|----------------|---------|----------|
| ** UMATILLA ADA (ARMY) | | | |
| SITE 1 | WASHOUT LAGOON | RI/FS | A |

PENNSYLVANIA

| Site Name | Description | Project | Priority |
|----------------------------------|----------------------------------|---------|----------|
| ** LETTERKENNY ARMY DEPOT (ARMY) | | | |
| SITE 1 | DPOO AREA | RA | A |
| SITE 3 | LAGOON | RA | A |
| ** NEW CUMBERLAND AD (ARMY) | | | |
| SITE 1 | EASTERN DISTRIBUTION CENTER | RA | C |
| SITE 3 | SOLVENT TANK T-950 | RA | C |
| ** TOBYHANNA AD (ARMY) | | | |
| SITE 1 | OLD SUBSTATION | RA | C |
| SITE 2 | OIL STORAGE AREA | RA | C |
| SITE 3 | BLDG 701 | RA | C |
| SITE 4 | BLDG 15 | RA | C |
| ** NADC WARMINSTER (NAVY) | | | |
| SITE 1 | FORMER BURN PIT | RUFS | A |
| SITE 2 | SLUDGE DISPOSAL AREA | RUFS | A |
| SITE 3 | WASTE DISPOSAL AREA | RUFS | A |
| SITE 4 | MAIN LANDFILL | RUFS | A |
| SITE 5 | BLDG 410 WASTE ENTRENCHMENT | RUFS | A |
| SITE 6 | WASTE PILES | RUFS | A |
| SITE 7 | WASTE ENTRENCHMENT | RUFS | A |
| SITE 8 | FIRE FIGHTING TRAINING AREA | RUFS | A |
| SITE 9 | STOCKPILE | RUFS | C |
| ** NAS WILLOW GROVE (NAVY) | | | |
| SITE 1 | PRIVET RD COMPOUND | RUFS | B |
| SITE 2 | ANTENNA FIELD LNDFL | RUFS | C |
| SITE 3 | 9TH ST LNDFL | RUFS | B |
| SITE 4 | NORTH END LNDFL | RUFS | B |
| SITE 5 | FIRE TRAINING AREA | RUFS | C |
| ** NSY PHILADELPHIA (NAVY) | | | |
| SITE | FUEL FARM | RUFS | B |
| SITE 2 | BLASTING GRIT AND DRUM DISP AREA | RUFS | B |
| SITE 3 | TRANSFORMER STOR AREA B #25 | RUFS | C |
| SITE 4 | CYLINDER DISP AREA | RU/RA | B |
| SITE 6 | SUBSTATION #2 TRANSF OIL SPILL | RUFS | C |
| SITE 7 | B 546-PCB TRANSFORMER SPILL | RUFS | C |
| ** SPCC MECHANICSBURG (NAVY) | | | |
| SITE 3 | BURN AREA | RUFS | B |
| SITE 4 | RADIOACTIVE WASTE DISP | RUFS | C |
| SITE 5 | GOLF COURSE LANDFILL | RUFS | C |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

PENNSYLVANIA

| Site Name | Description | Project | Priority |
|---------------------------------------|-----------------------------------|---------|----------|
| SITE 7 | BLDG 403/404 | RI/FS | B |
| ** GREATER PITTSBURGH IAP (AF) | | | |
| SITE 01 | POL AREA | FS | C |
| SITE S 01 | PAST POL AREA | FS | C |
| SITE S 02 | CE RUBBLE LANDFILL | FS | C |
| SITE DS 01 | DRUM STORAGE BLDG 408 | FS | C |
| SITE DS 02 | DRUM STORAGE BLDG 416 | FS | C |
| SITE OT 01 | FUEL LINE BREAK BLDG 316 | FS | C |
| SITE OT 03 | PCB STORAGE BLDG 342 | FS | C |
| ** WILLOW GROVE ARF (AF) | | | |
| SITE 04 | WASHRACK AREA | RI | B |
| SITE 05 | WASTE OIL STORAGE AREA, BLDG 4330 | RI | B |
| SITE 07 | OLD WELL HOUSE | RI | B |
| SITE OT 01 | HEATING PLANT | RI | B |

PUERTO RICO

| Site Name | Description | Project | Priority |
|-------------------------------------|----------------------------|---------|----------|
| ** NS ROOSEVELT ROADS (NAVY) | | | |
| SITE 1 | QUEBRADA DISP SITE | RI/FS | B |
| SITE 2 | MANGROVE DISP SITE | RI/FS | C |
| SITE 3 | IRRNA/MAF-4 DISP SITE | RI/FS | C |
| SITE 5 | ARMY CREMATOR DISP AREA | RI/FS | C |
| SITE 6 | LANGLEY DR DISP AREA | RI/FS | C |
| SITE 7 | LANDFILL | RI/FS | B |
| SITE 8 | DRONE WASHDOWN | RI/FS | C |
| SITE 9 | PCB DISPOSAL DRY DOCK AREA | RI/FS | B |
| SITE 10 | BLDG 25 | RI/FS | B |
| SITE 11 | BLDG 145 | RI/FS | B |
| SITE 12 | TWO WAY RD FUEL FARM | RI/FS | B |
| SITE 13 | TANKS 210 TO 217 | RI/FS | B |
| SITE 14 | EMSEN HONDA SHORELINE MAG. | RI/FS | B |
| SITE 15 | SUBSTATION 2 | RI/FS | B |
| SITE 16 | OLD POWER PLANK, BLDG 38 | RI/FS | B |
| ** MSGA SEBANA SECA (NAVY) | | | |
| SITE 6 | FORMER PEST CONTROL | RI/FS | B |
| SITE 7 | LEACHATE POND AREA | RI/FS | B |

RHODE ISLAND

| Site Name | Description | Project | Priority |
|---------------------------------|-------------------------|---------|----------|
| ** CPC DAVISVILLE (NAVY) | | | |
| SITE 2 | CEC BATT ACIO DISP AREA | RI/FS | B |
| SITE 3 | CEC SOLVENT DISP AREA | RI/FS | B |
| SITE 4 | CEC ASPHALT DISPOSAL | RI/FS | B |
| SITE 6 | SOLVENT DISP | RI/FS | B |
| SITE 7 | CALF PASTURE PT | RI/FS | B |
| SITE 8 | DPOO FILM PROC DISP | RI/FS | B |
| SITE 9 | LANDFILL | RI/FS | B |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

RHODE ISLAND

| Site Name | | Description | Project | Priority |
|-------------------------------|----|-----------------------------------|---------|----------|
| SITE | 10 | CAMP FOGERTY DISP AREA | RI/FS | B |
| SITE | 11 | FIRE FIGHTING TRAINING AREA | RI/FS | B |
| SITE | 12 | DPDO TRANSFORMER OIL SPILL | RI/RA | B |
| SITE | 13 | DIPS AREA NW OF BLDG W3,W4 AND T1 | RI/FS | B |
| SITE | 14 | BLDG 38 TRANSFORMER LEAKS | RI/RA | B |
| ** NETC NEWPORT (NAVY) | | | | |
| SITE | 1 | MCALLISTER PT LANDFILL | RI/RA | B |
| SITE | 2 | MELLVILLE NORTH LANDFILL | RI/RA | B |
| SITE | 7 | TANK FARM 1 | RI/FS | B |
| SITE | 12 | TANK FARM 4 | RI/FS | B |
| SITE | 13 | TANK FARM 5 | RA | B |
| SITE | 14 | DISPOSAL AREA | RI/FS | B |
| SITE | 17 | GOULD ISLAND ELECTROPLATING | RI/FS | C |

SOUTH CAROLINA

| Site Name | | Description | Project | Priority |
|-------------------------------------|----|-----------------------------------|---------|----------|
| ** MCAS BEAUFORT (NAVY) | | | | |
| SITE | 1 | FENCED HAZARD AREA | RI/FS | B |
| SITE | 2 | LAFRENE RD LANDFILL | RI/FS | B |
| SITE | 3 | BARROW PIT LANDFILL | RI/FS | B |
| SITE | 5 | PESTICIDE RESIDUE PIT | RI/FS | B |
| SITE | 6 | INERT LANDFILL SEEPAGE TRENCH | RI/FS | B |
| SITE | 7 | DAY TANK SPILL AREA | RI/FS | B |
| SITE | 8 | KAVIENG ST LANDFILL | RI/FS | B |
| SITE | 10 | TANK SLUDGE DISPOSAL AREA | RI/FS | B |
| SITE | 11 | FORMER GSE MAINTENANCE AREA | RI/FS | B |
| SITE | 14 | INERT LANDFILL | RI/FS | B |
| SITE | 16 | STORM SEWER OUTFALL | RI/FS | B |
| SITE | 17 | EASTERN FIRE TRAINING PITS | RI/FS | B |
| ** MCRO PARRIS ISLAND (NAVY) | | | | |
| SITE | 1 | INCINERATOR LNDFL | RI/FS | B |
| SITE | 3 | CAUSEWAY LANDFILL | RI/FS | B |
| SITE | 4 | JREDGE SPOILS AREA | RI/FS | B |
| SITE | 16 | PAST RINSEATE DISPOSAL AREA | RI/FS | B |
| ** MSY CHARLESTON (NAVY) | | | | |
| SITE | 1 | BASE LANDFILL | RI/FS | B |
| SITE | 2 | CHEM. DISPOSAL AREA | RI/FS | B |
| SITE | 3 | OIL SLUDGE PITS | RI/FS | B |
| SITE | 4 | POL TRANSFER PT | RI/RA | B |
| SITE | 5 | FORMER FIRE FIGHTING TRAINING PIT | RI/RA | B |
| SITE | 6 | PCB STORAGE AREA | RI/RA | B |
| SITE | 7 | FORMER PESTICIDE MIXING AREA | RI/FS | B |
| SITE | 8 | CAUSTIC PIT | RI/FS | C |
| SITE | 9 | NSC OLD POL STORAGE AREA | RI/RA | B |
| ** NWS CHARLESTON (NAVY) | | | | |
| SITE | | S ANNEX MUNITIONS DISPOSAL | RI/FS | B |
| SITE | | PCP DIP TANK AT BLDG 88 | RI/FS | B |
| SITE | 1 | SOUTH SIDE ORDNANCE DISPOSAL | RA | B |
| SITE | 2 | SOUTH SIDE LNDFL | RI/RA | B |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

SOUTH CAROLINA

| Site Name | | Description | Project | Priority |
|--|-------|-------------------------------------|---------|----------|
| SITE | 5 | NORTH SIDE LNDFL | RI/RA | B |
| SITE | 8 | NORTH SIDE BURN AREA | RI/RA | B |
| SITE | 9 | OLD SOUTH SIDE PESTICIDE RINSE AREA | RI/RA | B |
| SITE | 12 | S. ANNEX WASTE DISPOSAL AREA | RI/RA | B |
| ** CHARLESTON AFB (AF) | | | | |
| SITE | 01 | BURIED AREA | RI | B |
| SITE | 02 | CONTAMINATED LAGOON | RI/RA | B |
| SITE | DS 01 | HZ WASTE STORAGE AREA 1 ZONE 2 | RI | B |
| SITE | DS 02 | HZ WASTE STORAGE ZONE 2 | RI | B |
| SITE | DS 03 | MATERIALS STOR. AREA | RI | B |
| SITE | DS 04 | SALV MATERIAL STORAGE AREA | RI | B |
| SITE | FT 02 | FIRE DEMO AREA 2 | RI | B |
| SITE | FT 03 | FPTA 1 | RI/RA | B |
| SITE | FT 04 | FPTA 2 | RI | B |
| SITE | FT 05 | FPTA 3 | RI/RA | B |
| SITE | FT 06 | FPTA NORTH AUX. FIELD | RI | B |
| SITE | LF 01 | LANDFILL 1 | RI/RA | B |
| SITE | LF 02 | LANDFILL 2 | RI/HA | B |
| SITE | LF 03 | LANDFILL 3 | RI/RA | B |
| SITE | LF 04 | LANDFILL 4 | RI | B |
| SITE | LU 01 | GAS STATION LEAK | RI | B |
| SITE | OT 01 | ENTOMOLOGY (PRESENT) | RI | B |
| SITE | OT 02 | HARDFILL 1 | RI | B |
| SITE | OT 03 | HARDFILL 3, ZONE 1 | RI | B |
| SITE | OT 04 | ENTOMOLOGY SHOP (PAST) | RI | B |
| SITE | SS 01 | DEFENSE FUEL SUPPORT TANK FARM | RI | B |
| SITE | SS 02 | NORTH PCB SPILL | RI | B |
| SITE | SS 03 | SOUTH PCB SPILL | RI | B |
| SITE | WP 01 | DUMP SITE | RI | B |
| ** MYRTLE BEACH AFB (AF) | | | | |
| SITE | SS 01 | FLIGHTLINE CONTAMINATED AREA | RD | B |
| ** DFSP CHARLESTON (DEFENSE LOGISTICS AGENCY) | | | | |
| SITE | 1 | TANK FARM | RA | A |
| ** DRMO CHARLESTON (DEFENSE LOGISTICS AGENCY) | | | | |
| SITE | 1 | DRMO STORAGE YARD | FS | A |

SOUTH DAKOTA

| Site Name | | Description | Project | Priority |
|------------------------------|-------|------------------------|---------|----------|
| ** ELLSWORTH AFB (AF) | | | | |
| SITE | SP 1 | PUMPHOUSE NO 7 | RI | C |
| SITE | SP 7 | PUMP HOUSE NO 6 | RI | B |
| SITE | SP 9 | AUTO SHOP HEATING FUEL | RI | B |
| SITE | FT 01 | FIRE TRAINING AREA | RI | B |
| SITE | LF 01 | LANDFILL 1 | RI | B |
| SITE | LF 02 | LANDFILL 2 | RI | C |
| SITE | LF 03 | LANDFILL 3 | RI | B |
| SITE | LF 04 | LANDFILL 4 | RI | C |
| SITE | LF 05 | LANDFILL 5 | RI | C |
| SITE | LF 06 | LANDFILL 6 | RI | C |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

SOUTH DAKOTA

| Site Name | Description | Project | Priority |
|------------|---|---------|----------|
| SITE RW 01 | LOW LEVEL RADIOACTIVE WASTE BURIAL SITE | RI | C |
| SITE SP 02 | C-9 LF COOLANT SPILL | RI | C |
| SITE SP 03 | HYDRANT LINE LEAKS | RI | C |
| SITE SP 04 | EOD PRAMITOL SPILL | RI | C |
| SITE SP 05 | C-11 LF COOLANT SPILL | RI | C |
| SITE SP 06 | N-10 LF COOLANT SPILL | RI | C |

TENNESSEE

| Site Name | Description | Project | Priority |
|---|-----------------------------------|---------|----------|
| ** HOLSTON AAP (ARMY) | | | |
| SITE 1 | NITRATE POND 3 | RUFS | C |
| SITE 2 | BURNING GROUND | RUFS | C |
| SITE 3 | B-LINE POND | RUFS | C |
| SITE 4 | AREA A FLY ASH POND | RUFS | C |
| SITE 5 | TAR SITE | RUFS | C |
| ** MILAN AAP (ARMY) | | | |
| SITE 2 | OPEN BURNING/OPEN DETONATION AREA | RUFS | A |
| ** VOLUNTEER AAP (ARMY) | | | |
| SITE 2 | MONITORING; SOURCE CONTROL | RUFS | C |
| ** HAS MEMPHIS (NAVY) | | | |
| SITE | SEWAGE LAGOONS | RUFS | B |
| SITE 2 | S. LNOFL | RUFS | B |
| SITE 3 | N-121 PLATING SHOP DRY WELL | RUFS | B |
| SITE 4 | N-121 PLATING SHOP SEWER DITCH | RUFS | B |
| SITE 7 | N-126 PLATING SHOP DRY WELL | RUFS | B |
| SITE 8 | CEMETERY DISP. | RUFS | C |
| ** WROB BRISTOL (NAVY) | | | |
| SITE 1 | RIDGE DISPOSAL AREA | RUFS | B |
| SITE 2 | HOLLOW DISPOSAL AREA | RUFS | B |
| SITE 3 | SLUDGE LAGOONS | RUFS | B |
| SITE 4 | PLATING WASTE DISPOSAL PIT | RUFS | B |
| SITE 6 | STORM SEWER OUTFALL | RUFS | B |
| ** ARNOLD AFS (AF) | | | |
| SITE 01 | LANDFILL 2. LEACHATE PIT 2 | FS/RO | A |
| ** DDMT MEMPHIS (DEFENSE LOGISTICS AGENCY) | | | |
| SITE 1 | FIRE RESERVOIR | RUFS | C |

TRUST TERRITORIES

| Site Name | Description | Project | Priority |
|-------------------------------------|--------------------------|---------|----------|
| ** WAKE ISLAND AIRFIELD (AF) | | | |
| SITE 19 | IND. LANDFL. FTA | RI | C |
| SITE 1500 | 1500 LIQUID FUEL STORAGE | RI | B |
| SITE 1700 | 1700 LIQUID FUEL STORAGE | RI | B |
| SITE 1800 | 1800 LIQUID FUEL STORAGE | RI | B |
| SITE FT 01 | AIRFIELD SITE 7 | RI | B |
| SITE FT 02 | AIRFIELD SITE 13 | RI | C |
| SITE FT 03 | AIRFIELD SITE 14 | RI | C |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

TRUST TERRITORIES

| Site Name | Description | Project | Priority |
|------------|------------------|---------|----------|
| SITE LF 01 | AIRFIELD SITE 10 | RI | B |
| SITE LU 01 | AIRFIELD SITE 9 | RI | B |
| SITE OT 01 | AIRFIELD SITE 4 | RI | B |
| SITE OT 02 | AIRFIELD SITE 5 | RI | B |
| SITE OT 03 | AIRFIELD SITE 8 | RI | B |
| SITE OT 04 | AIRFIELD SITE 11 | RI | B |
| SITE OT 05 | AIRFIELD SITE 12 | RI | B |
| SITE SS 01 | AIRFIELD SITE 6 | RI | B |
| SITE SS 02 | AIRFIELD SITE 15 | RI | B |

TEXAS

| Site Name | Description | Project | Priority |
|-------------------------------------|------------------------------------|---------|----------|
| ** CORPUS CHRISTI AD (ARMY) | | | |
| SITE 1 | HAZARDOUS WASTE DUMP SITE | RA | C |
| ** FORT BLISS (ARMY) | | | |
| SITE 1 | FIRE FIGHTING TRAINING AREA | RA | B |
| ** LONE STAR AAP (ARMY) | | | |
| SITE 5 | MIGRATION MANAGEMENT | RUFS | A |
| SITE 6 | OLD DEMOLITION GROUNDS | RUFS | A |
| SITE 7 | OLD WELLS AND CISTERNS | RUFS | A |
| ** LONGHORN AAP (ARMY) | | | |
| SITE 2 | BURNING GROUND NO. 3 | RUFS | C |
| SITE 3 | UNLINED EVAPORATION POND | RA | C |
| ** NAS CHASE FIELD (NAVY) | | | |
| SITE | FIRE FIGHTING TRAINING AREA | RUFS | B |
| SITE 1 | NW RUBBLE DISP. AREA | RUFS | B |
| SITE 2 | SE DISP. AREA | RUFS | B |
| SITE 3 | OLD FIRE FIGHTING TRAINING AREA | RUFS | C |
| ** NAS CORPUS CHRISTI (NAVY) | | | |
| SITE | FUEL FARM 216 | RU/RA | B |
| SITE 1 | DPOO LNDFL | RUFS | B |
| SITE 3 | CCAD LIQUID WASTE DISP AREA | RUFS | B |
| SITE 9 | NORTH GATE DISPOSAL AREA | RUFS | B |
| ** NAS DALLAS (NAVY) | | | |
| SITE 1 | FORMER FIRE FIGHTING TRAINING AREA | RUFS | B |
| SITE 4 | RUBBLE LANDFILL | RUFS | B |
| SITE 5 | PCB LEAK | RUFS | B |
| SITE 9 | PAINT STRIPPING AREA | RUFS | B |
| SITE 11 | TANG AREA DRAINAGE DITCH | RUFS | B |
| ** NAS KINGSVILLE (NAVY) | | | |
| SITE 1 | SEWAGE TREATMENT PLANT LNDFL | RUFS | C |
| SITE 2 | AVGAS FUEL FARM N | RU/RA | C |
| SITE 3 | TRANS. MTR POOL | RUFS | C |
| SITE 6 | FIRE FIGHTING TRAINING AREA | RUFS | C |
| SITE 8 | LANDFILL | RUFS | C |
| SITE 10 | WASTE POL/SOLVENT DISP | RUFS | C |
| ** NWMP DALLAS (NAVY) | | | |
| SITE 1 | W DRAINAGE LAGOON | RUFS | B |
| SITE 2 | E DRAINAGE LAGOON | RUFS | B |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

TEXAS

| Site Name | Site No. | Description | Project | Priority |
|---------------------------------|----------|---------------------------------------|---------|----------|
| SITE | 4 | FORMER ACID NEUT. PIT | RI/FS | C |
| SITE | 5 | IWC PIPELINE LEAK | RI/FS | C |
| SITE | 6 | FORMER REFUSE BURN PIT | RI/FS | C |
| SITE | 7 | W. OIL BURNER & DRUM AREA | RI/FS | B |
| SITE | 8 | IND SLUDGE DRUM STOR. | RI/FS | B |
| SITE | 9 | FIREBRICK BURIAL SITE | RI/FS | C |
| SITE | 10 | WASTE POL SPILL | RI/FS | B |
| ** HWIRP MCGREGOR (NAVY) | | | | |
| SITE | 2 | AREA F-WEST SETTLING PONDS | RI/FS | B |
| SITE | 3 | AREA F-STOCK POND | RI/FS | B |
| SITE | 5 | AREA G-PEST. DUMP | RI/FS | B |
| SITE | 6 | AREA L ASBESTOS PILE | RI/FS | B |
| SITE | 7 | AREA L-TNT WASHOUT LAGOONS | RI/FS | B |
| SITE | 9 | AREA M-NORTH POND | RI/FS | B |
| SITE | 12 | AREA-M TNT WASHOUT PITS | RI/FS | B |
| ** BERGSTROM AFB (AF) | | | | |
| SITE | 23 | FTA | RA/RO | B |
| ** BROOKS AFB (AF) | | | | |
| SITE | FT 01 | FPTA 2 | RI | C |
| SITE | FT 03 | FPTA 3 | RI | C |
| SITE | LF 01 | LANDFILL 1 | RI | C |
| SITE | LF 02 | LANDFILL 2 | RI | C |
| SITE | LF 03 | LANDFILL 3 | RI | C |
| SITE | LF 04 | LANDFILL 4 | RI | C |
| SITE | LF 05 | LANDFILL 5 | RI | B |
| SITE | LF 06 | LANDFILL 6 | RI | B |
| SITE | WP 01 | LIQUID FUEL SLUDGE DISPOSAL | RI | B |
| ** CAMSWELL AFB (AF) | | | | |
| SITE | 01 | LANDFILL 1 | RI | B |
| SITE | 02 | LANDFILL 2 | RI | C |
| SITE | 03 | LANDFILL 3 | RI | C |
| SITE | 04 | LANDFILL 4 | RI | B |
| SITE | 05 | LANDFILL 5 | RI | B |
| SITE | 06 | LANDFILL 6 | RI | C |
| SITE | 10 | WASTE BURIAL AREA | RI | B |
| SITE | 11 | FTDA 1 | RI | C |
| SITE | 12 | FTDA 2 | RI/RO | B |
| SITE | 13 | FLIGHTLINE DRAINAGE DITCH | RI/RA | B |
| SITE | 14 | PESTICIDE RINSE AREA | RI | C |
| SITE | 15 | ENTOMOLOGY DRY WELL | RI | B |
| SITE | 16 | UNNAMED STREAM | RI | B |
| SITE | 17 | POL TANK FARM | RI/RO | B |
| SITE | OT 01 | WEAPONS STORAGE AREA, INSPECTION SHOP | RI | B |
| ** DYESS AFB (AF) | | | | |
| SITE | FT 01 | FIRE TRAINING AREA 1 | RI | B |
| SITE | FT 02 | FIRE TRAINING AREA 2 | RI | C |
| SITE | LF 01 | LANDFILL/POL SLUDGE DISP AREA 2 | RI | B |
| SITE | OT 01 | EVAPORATION PIT, WASTE TANK | RI | B |
| SITE | OT 02 | N DIVERSION DITCH 2 | RI | B |
| SITE | OT 03 | S DIVERSION DITCH 1 | RI | C |
| SITE | WP 01 | POL SLUDGE PIT AREA 1 | RI | C |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

TEXAS

| Site Name | | Description | Project | Priority |
|------------------------------|-------|-------------------------------|---------|----------|
| ** ELLINGTON AFB (AF) | | | | |
| SITE | SS 01 | SPILL NEAR BLDG 1287 | RI | B |
| ** KELLY AFB (AF) | | | | |
| SITE | D-2 | LANDFILL | RI/FS | A |
| SITE | D-4 | LANDFILL | RI/FS | A |
| SITE | D-6 | LANDFILL | RI | A |
| SITE | E-1 | CHEMICAL EVAPORATION PIT | FS | A |
| SITE | S-2 | DPDO STORAGE YARD | RI/FS | A |
| SITE | S-3 | MAINTENANCE STORAGE AREA | RI | A |
| SITE | S-4 | FUEL SPILL AREA | FS | A |
| SITE | S-6 | FUEL SPILL AREA | RI | A |
| SITE | S-7 | HERBICIDE STORAGE AREA | RI | A |
| SITE | FC-1 | FCTA | RI | A |
| SITE | FC-2 | FCTA | RI | A |
| SITE | IS-1 | STILL SPILL AREA | RI | A |
| SITE | RD-1 | RADIOACTIVE DISPOSAL AREA | RI | A |
| SITE | RD-2 | RADIOACTIVE DISPOSAL AREA | RI | A |
| SITE | SA-2 | SLUDGE SPREADING AREA | RI | A |
| SITE | SA-3 | SLUDGE SPREADING AREA | RI | A |
| SITE | SD-2 | SLUDGE DRYING BED | RI | A |
| SITE | LU 01 | GREEN WORM AREA | RA/RO | A |
| SITE | WP 01 | CS-1, WASTE SITE | RI | A |
| ** SHEPPARD AFB (AF) | | | | |
| SITE | 01 | TELCON MANHOLE 5 | RI/FS | C |
| SITE | FT 01 | FPTA 1 | RI/FS | C |
| SITE | FT 02 | FPTA 3 | RI/FS | C |
| SITE | FT 03 | FPTA 2 | RI | C |
| SITE | LF 01 | LANDFILL #3 AND HARDFILL | RI/FS | C |
| SITE | LF 02 | LANDFILL 1 | RI | C |
| SITE | LF 03 | LANDFILL 2 | RI | C |
| SITE | LU 01 | BLDG 2017 BEA ABANDONED UST | FS | C |
| SITE | LU 02 | BLDG T-35 IEA ABANDONED UST | FS | C |
| SITE | LU 03 | BLDG 990 1 EA ABANDONED UST | FS | C |
| SITE | LU 04 | BLDG 2545 90 EA ABANDONED UST | FS | C |
| SITE | LU 05 | UST BLDG 920 | RI/FS | C |
| SITE | OT 01 | PESTICIDE SPRAY AREA | RI | C |
| SITE | WP 01 | WASTE PITS | RI/FS | B |
| SITE | WP 02 | INDUSTRIAL WASTE PIT | RI | C |

UTAH

| Site Name | | Description | Project | Priority |
|--|---|-----------------------|---------|----------|
| ** DUGWAY PROVING GROUND (ARMY) | | | | |
| SITE | 1 | OPEN PITS | RA | C |
| SITE | 2 | DUMP SITE | | C |
| ** TOOELE AD (ARMY) | | | | |
| SITE | 2 | INDUSTRIAL WASTE POND | RI/FS | A |
| SITE | 5 | PITS (UNKNOWN NUMBER) | RI/FS | A |
| SITE | 6 | MUSTARD HOLDING AREA | RI/FS | A |
| SITE | 7 | EXPLOSION CRATERS | RI/FS | A |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

UTAH

| Site Name | | Description | Project | Priority |
|---|-------|-------------------------------------|---------|----------|
| SITE | 8 | WINDOWS | RI/FS | A |
| SITE | 9 | CAMDS | RI/FS | A |
| SITE | 10 | GRAVEL PIT | RI/FS | A |
| SITE | 11 | DRAINAGE PONDS | RI/FS | A |
| SITE | 12 | SPOIL AREA | RI/FS | A |
| ** AFP NO.78, CORINNE (AF) | | | | |
| SITE | S 01 | S1 | RI/FS | C |
| SITE | S 02 | S2 | RI/FS | C |
| SITE | S 03 | S3 | RI/FS | C |
| SITE | S 04 | S4 | RI/FS | C |
| SITE | OT 01 | FRENCH DITCH | RI/FS | C |
| SITE | OT 02 | N. DRAINAGE DITCH | RI/FS | B |
| SITE | OT 03 | X-O-MAT WASTEWATER DISCHARGE AREA 1 | RI/FS | C |
| SITE | OT 04 | X-O-MAT WASTEWATER DISCHARGE AREA 2 | RI/FS | C |
| ** HILL AFB (AF) | | | | |
| SITE | 07 | ECO BURN SITE | RI | A |
| SITE | 08 | SPOIL PIT | RI | A |
| SITE | 09 | PERIMETER ROAD | RI | A |
| SITE | 10 | SWAMP LEACH FIELD | RI | A |
| SITE | 11 | POND 3 | RI | A |
| SITE | 19 | US ARMY TOOELE RAIL SHOP | RI | A |
| SITE | FT 01 | FPTA 1 | RI | A |
| SITE | LF 01 | LANDFILL 1 | RI/FS | A |
| SITE | LF 02 | LANDFILL 2 | RI/FS | A |
| SITE | LF 03 | LANDFILL 3 | RI/FS | A |
| SITE | LF 04 | LANDFILL 4 | RI/FS | A |
| SITE | LF 05 | LANDFILL 5-UTTR, SITE 6 | RI | A |
| SITE | LU 01 | 822 UNDER GROUND TANKS | RI | A |
| SITE | OT 01 | HERBICIDE ORANGE TEST PLOT | RI | A |
| SITE | OT 02 | IWTP DRYING BED | RI/FS | A |
| SITE | OT 03 | LITTLE MTN. DRYING BEDS | RI/FS | A |
| SITE | OW 01 | BAMBURGER POND | RI | A |
| SITE | SS 01 | JP-4 SPILL REFUELING AREA | RI | A |
| SITE | SS 02 | SODIUM HYDROXIDE SPILL | RI/FS | A |
| SITE | WP 01 | BERMAN POND | RI | A |
| SITE | WP 02 | CHEMICAL DISPOSAL PIT 3 | RI/FS | A |
| SITE | WP 03 | CHEMICAL DISPOSAL PIT 1 & 2 | RI/RA | A |
| ** ODOU OGDEN (DEFENSE LOGISTICS AGENCY) | | | | |
| SITE | 1 | FORMER LANDFILLS | RI/FS | A |

VIRGINIA

| Site Name | | Description | Project | Priority |
|---------------------------------|---|-----------------------------|---------|----------|
| ** FORT A.P. HILL (ARMY) | | | | |
| SITE | 3 | ORXIN CLEANUP SITE | RA | C |
| SITE | 5 | MO POL AREA | RI/FS | C |
| SITE | 6 | DRY BRIDGE WAREHOUSE AREA | RI/FS | C |
| ** FORT EUSTIS (ARMY) | | | | |
| SITE | 1 | HELICOPTER MAINTENANCE AREA | RI/FS | C |
| SITE | 3 | SEVERAL OLD LANDFILLS | RI/FS | C |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

VIRGINIA

| Site Name | Description | Project | Priority |
|--|------------------------------------|---------|----------|
| ** WOODBRIDGE RESEARCH FACILITY (ARMY) | | | |
| SITE 2 | PCB BURIAL SITE | P-RA | C |
| ** FCTC DAM NECK (NAVY) | | | |
| SITE 1 | REGULUS LNDFL | RI/FS | B |
| SITE 2 | FORMER PCB STOR. | RI/FS | B |
| SITE 5 | PW DISPOSAL AREA | RI/FS | B |
| SITE 6 | FORMER PESTICIDE SHOP | RI/FS | B |
| ** MCDEC QUANTICO (NAVY) | | | |
| SITE 4 | OLG LNDFL | RI/FS | B |
| SITE 5 | OLD BATCH PLANT | RI/FS | B |
| SITE 7 | RECENTLY CLOSED LANDFILL | RI/FS | B |
| SITE 17 | ARSENIC DISPOSAL AREA | RI/FS | B |
| ** NAB LITTLE CREEK (NAVY) | | | |
| SITE | SEWAGE TREATMENT PLANT LNDFL | RI/FS | B |
| SITE | LAUNDRY WASTE STORAGE AREA | RI/FS | B |
| SITE 7 | AMPHIB BASE LNDFL | RI/FS | B |
| SITE 9 | DRIVING RANGE LNDFL | RI/FS | B |
| SITE 11 | SCHOOL OF MUSIC PLATING | RI/FS | C |
| SITE 13 | PW COMP PCP DIP TANK AND WASH | RI/FS | B |
| ** NAS NORFOLK (NAVY) | | | |
| SITE 1 | PCB FIRE CONTAM | RA | B |
| ** NAS OCEANA (NAVY) | | | |
| SITE | OLD STATIC ENGR TEST CELL HG SPILL | RI/FS | B |
| SITE 1 | WEST WOODS OIL DISP PIT | RI/FS | C |
| SITE 2 | LINE SHACK OIL PIT | RI/FS | B |
| SITE 7 | FIFTH GREEN | RI/FS | C |
| SITE 8 | N. STATION LNDFL | RI/FS | C |
| SITE 14 | LNDFL | RI/FS | B |
| ** NRTF DRIVER (NAVY) | | | |
| SITE 1 | LANDFILL | RI/FS | C |
| SITE 5 | PCB SPILL | RI/RA | C |
| SITE 8 | SERVICE STATION GAS LEAK | RI/FS | C |
| ** NSC CHEATHAM ANX WILLIAMSBURG (NAVY) | | | |
| SITE 1 | LANDFILL NEAR INCINERATOR | RI/FS | C |
| SITE 9 | TRANSFORMER STOR AREA | RI/FS | B |
| SITE 10 | DECON AGNT DISP NEAR 1ST | RI/FS | C |
| SITE 11 | BONE YD | RI/FS | B |
| SITE 13 | SLUDGE FARM | RI/FS | B |
| SITE 14 | TANK BOTT | RI/FS | C |
| SITE 15 | TANK BOTT | RI/FS | B |
| SITE 16 | TANK BOTT | RI/FS | C |
| SITE 17 | TANK BOTT | RI/FS | C |
| SITE 18 | TANK BOTT | RI/FS | C |
| SITE 19 | TANK BOTT | RI/FS | B |
| SITE 20 | TANK BOTT | RI/FS | B |
| SITE 21 | TANK BOTT | RI/FS | B |
| SITE 22 | TANK BOTT | RI/FS | C |
| SITE 23 | TANK BOTT | RI/FS | C |
| SITE 24 | TANK BOTT | RI/FS | C |
| SITE 25 | TANK BOTT | RI/FS | C |
| SITE 26 | TANK BOTT | RI/FS | B |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

VIRGINIA

| Site Name | Description | Project | Priority |
|--|----------------------------------|---------|----------|
| SITE 27 | FUEL PIT AT B21 | RI/FS | B |
| SITE 31 | ABANDON NSFO TANKS | RI/FS | B |
| ** NSC NORFOLK (NAVY) | | | |
| SITE - | AVGAS ON GROUND NEAR TANK 275 | RI/FS | B |
| SITE 1 | BALLAST DISP. LAGOONS | RI/FS | C |
| SITE 2 | OILY SLUDGE LANDSPREAD | RI/FS | C |
| SITE 3 | OILY SLUDGE PIT | RI/FS | C |
| SITE 4 | WASTE OIL DRUM STORAGE AREA | RI/FS | C |
| SITE 5 | UNDERGROUND PIPE SPILL AREA | RI/FS | B |
| ** NSWC DAHLGREN (NAVY) | | | |
| SITE 5 | 1400 AREA LANDFILL | RI/FS | B |
| SITE 9 | DISPOSAL/BURN AREA | RI/FS | B |
| SITE 10 | MERC. CONT. | RI/FS | B |
| SITE 12 | CHEM BURN PIT | RI/FS | B |
| SITE 19 | TRANSFORMER DRAINING | IR/RA | B |
| SITE 25 | PESTICIDE RINSING | RI/RA | B |
| ** NWS YORKTOWN (NAVY) | | | |
| SITE 1 | DUDLEY RD LANDFILL | RI/FS | B |
| SITE 2 | TURKEY RD LANDFILL | RI/FS | B |
| SITE 3 | GRP 16 MAG LANDFILL | RI/FS | B |
| SITE 4 | BURNING PAD RESIDUE LNDFL | RI/FS | B |
| SITE 5 | SURPLUS TRANSFORMER STORAGE | RI/FS | B |
| SITE 6 | EXPLOSIVES CONT. WW IMPOUNDMENT | RI/FS | B |
| SITE 7 | PLANT 3 EXPL. CONT. WW | RI/FS | B |
| SITE 9 | EXPL. CONT. WW | RI/FS | B |
| SITE 11 | ABANDONED EXPLOSIVES BURNING PIT | RI/FS | C |
| SITE 12 | BARRACKS ROAD LANDFILL | RI/FS | B |
| SITE 16 | WEST RD LNDFL | RI/FS | B |
| SITE 17 | HOLM RD LNDFL | RI/FS | B |
| SITE 18 | BLOG 476 DISCHARGE | RI/FS | B |
| SITE 19 | CONVEYOR BELT SOILS AT BLDG 10 | RI/FS | C |
| ** PWC NORFOLK (NAVY) | | | |
| SITE 4 | P-71 TRANSFORMER STORAGE AREA | RA | B |
| ** LANGLEY AFB (AF) | | | |
| SITE 04 | FUEL SATURATED AREA | RA/RO | C |
| ** DGSC RICHMOND (DEFENSE LOGISTICS AGENCY) | | | |
| SITE 1 | FORMER AREA 50 LANDFILL | RI/FS | A |
| SITE 4 | FIRE TRAINING PITS | RA | A |

VERMONT

| Site Name | Description | Project | Priority |
|-------------------------------|--------------------|---------|----------|
| ** BURLINGTON ANG (AF) | | | |
| SITE 01 | FOTA AND OLD LNDFL | RI/FS | B |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

WASHINGTON

| Site Name | | Description | Project | Priority |
|-------------------------------------|----|------------------------------------|---------|----------|
| ** FORT LEWIS (ARMY) | | | | |
| SITE | 2 | FIRE PIT/EOD RANGE | RI/FS | A |
| SITE | 3 | LANDFILL 5 | RI/FS | A |
| ** NAS WHIDBEY ISLAND (NAVY) | | | | |
| SITE | - | RUNWAY DITCHES AFCCA | RI/FS | A |
| SITE | - | SEAPLANE BASE LANDFILL | RI/FS | A |
| SITE | 2 | WESERN HIGHLAND LANDFILL | RI/FS | A |
| SITE | 3 | 1969-1970 LANDFILL | RI/FS | A |
| SITE | 4 | WALKER BARN STORAGE AREA | RI/FS | C |
| SITE | 5 | HIGHWAY 20/HOFFMAN ROAD LANDFILL | RI/FS | C |
| SITE | 6 | CURRENT LANDFILL | RI/FS | A |
| SITE | 13 | FUEL FARM 3 | RI/FS | A |
| SITE | 14 | PESTICIDE RINSEATE DISPOSAL | RI/FS | A |
| SITE | 16 | RUNWAY DITCHES | RI/FS | A |
| SITE | 17 | OLD AULT FIELD COAL PILE | RI/FS | A |
| SITE | 18 | AULT FIELD NOSE HANGARS | RI/FS | A |
| SITE | 19 | FUEL TRUCK DEPOT | RI/FS | A |
| SITE | 20 | AULT FIELD SEWAGE CLARIFIER | RI/FS | A |
| SITE | 21 | BOILER PLANT OIL SPILL | RI/FS | A |
| SITE | 22 | HANGAR 5 | RI/FS | A |
| SITE | 23 | NW APRON AREA | RI/FS | A |
| SITE | 24 | BUILDING 253 OIL TANK | RI/FS | A |
| SITE | 25 | BLDG 120 TRANSFORMER SERVICE AEA | RI/FS | A |
| SITE | 26 | ABANDON AULT FIELD OIL TANKS | RI/FS | A |
| SITE | 27 | 1966 FIRE SCHOOL | RI/FS | A |
| SITE | 28 | CHAPEL FIRE SCHOOL | RI/FS | A |
| SITE | 29 | CLOVER VALLEY ROAD FIRE SCHOOL | RI/FS | A |
| SITE | 31 | RUNWAY FIRE SCHOOL | RI/FS | A |
| SITE | 32 | BLDG 889 TRANSFORMER SERVICE | RI/FS | A |
| SITE | 35 | FUEL FARM 2 | RI/FS | A |
| SITE | 36 | FUEL FARM 1 | RI/FS | A |
| SITE | 37 | ABANDONED SEAPLANE BASE OIL TANK | RI/FS | A |
| SITE | 38 | SEAPLANE BASE, SEWAGE CLARIFIER | RI/FS | A |
| SITE | 39 | AUTO SHOP | RI/FS | A |
| SITE | 40 | SEAPLANE BASE COAL PILE | RI/FS | A |
| SITE | 41 | BLDG 25&26 DISPOSAL AREA | RI/FS | A |
| SITE | 42 | GAS TANK LEAK | RI/FS | A |
| SITE | 43 | SEAPLANE BASE GAS STATION | RI/FS | A |
| SITE | 44 | SEAPLANE NOSE HANGAR | RI/FS | A |
| SITE | 45 | TCE TANK | RI/FS | A |
| SITE | 48 | SALVAGE YARD | RI/FS | A |
| ** NSB BANGOR (NAVY) | | | | |
| SITE | - | MANCHESTER PCB CONT. | RI/FS | B |
| SITE | - | MANCHESTER LEAD CONT. | RI/FS | B |
| SITE | 5 | METALLURGY FAC RUBBLE | RI/FS | C |
| SITE | 6 | OLD CISTERN FILLED W/ GREEN LIQUID | RI/FS | A |
| SITE | A | EOD TEST RANGE | RI/FS | A |
| SITE | B | FLORAL PT | RI/FS | A |
| SITE | D | FORMER CIGARANCE BURNING | RI/FS | A |
| SITE | E | OLD ACID PIT | RI/FS | A |
| SITE | F | DEMIL WASTE DISP. SITE | RI/FS | A |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

WASHINGTON

| Site Name | | Description | Project | Priority |
|---------------------------|-------|----------------------------------|---------|----------|
| SITE | F | DEMIL OPS. WW DISP. SITE | RI/FS | A |
| SITE | 11 | BURIED PESTICIDES | RI/FS | A |
| SITE | 12 | DUNNAGE CANYON | RI/FS | A |
| SITE | 24 | LIQUID WASTE INCIN. | RI/FS | A |
| SITE | 25 | DINITROBENZENE AREA | RI/FS | A |
| SITE | 101 | FORMER WW DISCHAR. | RI/FS | A |
| SITE | 103 | GARBAGE AND ORDNANCE DISP. AREA | RI/FS | A |
| ** NSY PUGET SOUND (NAVY) | | | | |
| SITE | 6 | CONTAMINATED DREDGE MATERIAL | RA | C |
| ** NUWES KEYPORT (NAVY) | | | | |
| SITE | . | BURIED IMHOFF TANKS | RI/FS | A |
| SITE | 1 | LANDFILL | RI/FS | A |
| SITE | 2 | VAN METER REDISPOSAL | RI/FS | A |
| SITE | 9 | LIBERTY BAY SHORELINE | RI/FS | A |
| SITE | 10 | NORTH END LANDFILL INDIAN ISLAND | RI/FS | A |
| SITE | 21 | BLDG 86 FILL INDIAN ISLAND | RI/FS | A |
| ** FAIRCHILD AFB (AF) | | | | |
| SITE | FT 01 | FIRE TRAINING AREA | RD | B |
| SITE | SS 03 | PS-2 REFUELING PITS 18 & 19 | RD | B |
| SITE | SS 04 | PS-3 AREA C PUMPHOUSE FUELING | RD | B |
| SITE | SS 05 | PS-4 PUMPHOUSE 8 | RD | B |
| SITE | SW 01 | BASE LANDFILL NW OF T/W 6 | RD | B |
| SITE | SW 08 | BASE LANDFILL AT CRAIG RD | RD | B |
| SITE | WP 01 | OB-1 OLAA 25 ADS, MICA PEAK JSS | RD | B |
| SITE | WP 02 | WW-1 INDUSTRIAL WASTE LAGOON | RD | B |
| ** MCCORD AFB (AF) | | | | |
| | | NON-SITE LTM | RA | B |
| SITE | 04 | RE-EVALUATE GW | RI | B |
| SITE | A 01 | BURIAL PIT | RA | B |
| SITE | A 02 | AMERICAN LAKE GARDENS LANDFILL | RA | B |
| SITE | A 34 | JP-4 SPILL SITES 34 AREA A | RA | B |
| SITE | A 46 | JP-4 SPILL SITES 46 AREA A | RA | B |
| SITE | C 37 | SITE C37 POL SPILL/DISPOSAL | RA | B |
| SITE | C 42 | C42 FUEL SPILL | RA | B |
| SITE | C 54 | C54 LEACH PIT | RA | A |
| SITE | C 57 | LEACH PIT C-57 | RA | B |
| SITE | C 60 | LEACH PIT C-60 | RA | B |
| SITE | C 61 | LEACH PIT C-61 | RA | B |
| SITE | C 62 | C-62 LEACH AREA | RA | B |
| SITE | E 10 | E10 AERATION OF SOIL | RA | B |
| SITE | E 49 | E49 AERATION OF SOIL | RA | B |
| SITE | E 50 | AREA E SITE 50 FUEL SPILL | RA | B |
| SITE | E 51 | E51 AERATION OF SOIL | RA | B |
| SITE | LF 01 | SAMPLE DRUM REMOVAL | RA | B |

02/27/87

**DEPARTMENT OF DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
INSTALLATION RESTORATION PROGRAM
FY87 DEFENSE PRIORITIES LIST**

WISCONSIN

| Site Name | Description | Project | Priority |
|-----------------------------|-------------------------------|---------|----------|
| ** BADGER AAP (ARMY) | | | |
| SITE 3 | NC LAGOONS AND DRAINAGE DITCH | RI/FS | C |
| SITE 4 | ROCKET AREA | RA | C |
| SITE 5 | OLD ACID COMPLEX | | C |
| SITE 16 | COMPOSTING DEMO | RA | C |

WEST VIRGINIA

| Site Name | Description | Project | Priority |
|--|------------------------|---------|----------|
| ** WELDON SPRINGS CHEMICAL PLANT (ARMY) | | | |
| SITE 1 | WSCP- DOE/DA MOU | RI/FS | B |
| ** WEST VIRGINIA ORDNANCE WORKS (ARMY) | | | |
| SITE 2 | TNT AREA | RA | A |
| SITE 3 | BURNING GROUNDS | RA | A |
| SITE 4 | PROCESS SEWER LINES | RI/FS | A |
| SITE 5 | YELLOW WATER/ACID AREA | RA | A |
| SITE 6 | RED WATER RESVRS AREA | RA | A |
| SITE 7 | POND B AREA | RA | A |

WYOMING

| Site Name | Description | Project | Priority |
|--------------------------------|--------------------------------|---------|----------|
| ** F.E. WARREN AFB (AF) | | | |
| SITE 01 | SITE 1, BLDG 400 MOGAS SPILL | RI | B |
| SITE 02 | SITE 2, BLDG 810 SPILL | RI | B |
| SITE 03 | SITE 3, BLDG 131 SPILL | RI | C |
| SITE 04 | BLDG 1250 SPILL | RI | A |
| SITE 05 | SITE 5, BLDG 138 SPILL | RI | C |
| SITE 06 | SITE 6, BLDG 316 SPILL | RI | C |
| SITE FT 01 | FPTA 1 | RW/RO | B |
| SITE FT 02 | FPTA 2 | RI | B |
| SITE LF 01 | LANDFILL 2 | RI | B |
| SITE LF 02 | LANDFILL 3 | RI | B |
| SITE LF 03 | LANDFILL 4 | RI | B |
| SITE LF 04 | LANDFILL 5 | RI | B |
| SITE LF 05 | LANDFILL 6 | RI | B |
| SITE OT 01 | ACID DRY WELL WEST OF BLDG 826 | RW/RO | B |

TAB D

Status Report of DoD Sites Proposed for the National
Priority List, March 1987

STATUS REPORT
OF
DOD SITES
PROPOSED FOR THE
NATIONAL PRIORITY LIST
MARCH 1987

ALABAMA

Alabama Army Ammunition Plant, Childersburg
Anniston Army Dept, Anniston

CALIFORNIA

Castle Air Force Base, Merced
Mather Air Force Base, Rancho Cordova
McClellan Air Force Base, Sacramento
Moffett Naval Air Station, Sunnyvale
Norton Air Force Base, San Bernadino
Sacramento Army Depot, Sacramento
Sharpe Army Depot, Lathrop

COLORADO

Rocky Mountain Arsenal, Adams County

DELAWARE

Dover Air Force Base, Dover

GEORGIA

Robins Air Force Base, Houston County

ILLINOIS

Joliet Army Ammunition Plant, Joliet (2 sites)
Savanna Army Depot Activity, Savanna

LOUISIANA

Louisiana Army Ammunition Plant, Doyline

MAINE

Brunswick Naval Air Station, Brunswick

MARYLAND

Aberdeen Proving Grounds (2 sites)

MINNESOTA

Air Force Reserve Base, Twin Cities

MISSOURI

Lake City Army Plant, Independence

NEBRASKA

Cornhusker Army Ammunition Plant, Hall County

NEW JERSEY

Fort Dix, Wrightstown
Naval Air Engineering Center, Lakehurst
Naval Weapons Station Earle, Colts Neck

NEW YORK

Griffiss Air Force Base, Rome

Oklahoma

Tinker Air Force Base, Oklahoma

OREGON

Umatilla Army Depot, Hermiston

PENNSYLVANIA

Letterkenny Army Depot, Chambersburg (2 sites)
Naval Air Development Center, Warminster (8 areas)

TENNESSEE

Milan Army Ammunition Plant, Milan

TEXAS

Air Force Plant No. 4, Fort Worth
Lone Star Army Ammunition Plant, Texarkana

UTAH

Hill Air Force Base, Ogden
Ogden Defense Depot, Ogden
Tooele Army Depot, Tooele

VIRGINIA

Defense General Supply Center, Chesterfield County

WASHINGTON

Bangor Ordnance Disposal, Bremerton
Fort Lewis, Tacoma
McChord Air Force Base, Toacoma
Naval Air Station, Whidbey Island (2 sites)
Naval Underseas Warfare Station, Keyport

This report still utilizes terminology developed under the DoD Installation Restoration Program (IRP). The IRP was changed in 1986 to use National Contingency Plan (NCP) terminology and procedures. Future revisions of this report will utilize NCP terminology.

TERMINOLOGY

| <u>DoD Installation Restoration Program Phases</u> | <u>National Contingency Plan Remedial Steps</u> |
|--|--|
| I. Installation Assessment | Preliminary Assessment and Site inspection. |
| II. Confirmation Study (including Feasibility Study for Army and Navy) | Remedial Investigation and Feasibility Study (all services) |
| III. Technology Development | No equivalent step. Reported separate as RD&D |
| IV. Remedial Action (including Feasibility Study for Army and Air Force) | Remedial Action (including RA design and appropriate removal actions*) |

*The EPA differentiates between removals and remedial actions while the services report them together under the general term "Remedial Action".

DOD IRP SITES

| St | Name | HRS | Comment |
|----|------|-----|---------|
|----|------|-----|---------|

| | |
|----|----------------------------------|
| AL | ALABAMA ARMY AMMUNITION PLANT |
|----|----------------------------------|

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| 36.83 | Phase I was completed in 1978, and Phase II begun in 1985. The plant operated from 1942 to 1945. Contamination is with di- and trinitrotoluene in ground and surface water. Surface water also has lead contamination. Cleanup has been completed in one area that had been sold, but then leased back to the government for the purpose of decontaminating and removing equipment. Next action expected is asbestos removal and demolition of excessed administrative buildings. |
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|-----------------|-------------------|---|
| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
|-----------------|-------------------|---|

12/31/78 08/01/85 08/01/86

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|----|---|
| AL | ANNISTON ARMY DEPOT (SE IND AREA) |
|----|---|

| | |
|-------|---|
| 51.91 | Phases I, II, and III have been completed at the "Tank and Antitank Center of the Free World". The groundwater has been found contaminated with metals and trichloroethylene. Wastes and contaminated soils have been excavated and removed to a RCRA-permitted facility. An air stripper is being installed, and three other systems for elimination of volatiles and phenolics are being designed. Contracts for three groundwater treatment systems are scheduled for award in FY87. |
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| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
|-----------------|-------------------|---|

07/01/78 01/01/81 09/01/82

| St | Name | HRS | Comment |
|----|------|-----|---------|
|----|------|-----|---------|

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|----|--------------------------|-------|---|
| CA | CASTLE AIR FORCE BASE | 37.93 | Phase I, now completed, identified 26 sites. Phase II is in progress. Phase IV was begun in 1984 to replace the trichloroethylene-contaminated on-base drinking water supply with a new potable water well drawing from a deeper, uncontaminated aquifer. |
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| Phase I Done | Phase II Begun |
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10/01/83 08/01/84

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| CA | MATHER AIR FORCE BASE (AC&W DISPOSAL SITE) | 28.90 | Phase I is complete, with 23 sites identified. Phases II and III, begun in July 1982, are being conducted concurrently, with field work to have begun in 1985. \$80K was made available in 1985 to provide a new permanent water supply to 36 residences affected by trichloroethylene contamination of an on-base water well. Phase IV was scheduled for 1986, with an estimated total cost of \$5M. |
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| Phase I Done | Phase II Begun |
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01/06/82 08/01/83

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| CA | MCCLELLAN AIR FORCE BASE (GROUND WATER CONT) | 57.93 | Phase I, now completed, identified 47 sites with potential trichloroethylene and/or dichloroethylene contamination. Remedial action has begun. Estimated total cost is \$100M. |
|----|--|-------|--|

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| Phase I Done | Phase II Begun |
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07/01/81 05/01/84

| <u>St</u> | <u>Name</u> | <u>HRS</u> | <u>Comment</u> |
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| CA | NAVAL AIR STATION MOFFETT | - | Phase I has been completed at Moffett NAS, and a contract has been awarded for Phase II. The major contaminants in the groundwater are volatile organic compounds. Moffett is working with State regulatory agencies in their effort to incorporate an area-wide approach to cleanup efforts in the South Bay Area of San Francisco. |
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| Phase I Done | Phase II Begun | Phase IV Remedial Action |
|-----------------|-------------------|--------------------------------|

04/01/84 11/01/84

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| CA | NORTON AIR FORCE BASE | 39.65 | Phase I was completed October 1982, Phase II March 1985. Phase IV for lagoon closure and sludge removal was initiated in FY1985. Twenty sites were identified as containing hazardous wastes, eleven having a high potential for contaminant migration. Trichloroethylene was detected in concentrations exceeding California drinking water standards. All base wells were contaminated to various degrees with silver and perchloroethylene. |
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| Phase I Done | Phase II Begun |
|-----------------|-------------------|

10/01/82 08/01/83

| St | Name | NRS | Comment |
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| CA | SACRAMENTO ARMY DEPOT | 44.46 | Phase I was completed in 1980 and Phase II, begun in 1984, is ongoing. Sacramento is a supply depot dealing primarily with electronic materials. Contamination results chiefly from metal plating operations and sanitary and industrial solid wastes. Groundwater sampling in 1984 identified trichloroethylene and some metals. Detection of these substances off-post prompted the proposal for inclusion on the NPL. A schedule for remedial action for investigating groundwater contamination is being prepared. Contractors have been hired to take soil samples in areas to be closed, to install groundwater sampling wells, to develop closure plans, and to remove potentially leaking underground storage tanks. A remedial investigation into on-post sites was completed in FY87. The FS is now ongoing. A groundwater treatment system is to be implemented in FY87. |
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| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
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12/01/80 01/01/84

| <u>St</u> | <u>Name</u> | <u>HRS</u> | <u>Comment</u> |
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| CA | SHARPE ARMY DEPOT | 42.24 | <p>A 1980 records search at this former Army maintenance facility, followed by a 1981-1982 survey, revealed di- and trichloroethylene contamination and evidence of possible off-post migration and local well contamination. Bottled water was provided and the well closed. A geophysical survey completed in early 1984 failed to pinpoint contamination sources on-post. Two contracts were awarded to meet State requirements for contaminant source location, off-post monitoring, groundwater modelling, groundwater treatment, and source mitigation with an estimated completion date of the studies in mid-1985. The groundwater treatment plant became operational in 1986. A groundwater RI/FS was begun 11/81. A soil RI/FS was begun 8/86. A Hot Spot treatment system was placed in limited operation in FY 1986, at a cost of \$918k. Progress has been delayed due to persistent conflict with the California Regional Water Quality Control Board (CRWQCB) and consequent difficulty in obtaining access and entry for off-post monitoring wells. A Cleanup and Abatement Order was issued by the CRWQCB in 1/86. An IAG is currently being negotiated with EPA.</p> |
|----|-------------------|-------|--|

| Phase I | Phase II | Phase IV |
|---------|----------|-----------------------------|
| Done | Begun | Remedial Action Begun |

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|----------|----------|----------|
| 01/01/80 | 11/01/81 | 01/01/86 |
|----------|----------|----------|

| St | Name | HRS | Comment |
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|----|---------------------------|-------|--|
| CO | ROCKY MOUNTAIN ARSENAL | 58.15 | Phase I was completed in 1976 and Phase II is ongoing. The RI/FS has been extended by approximately one year in order to comply with SARA and litigation coordination requirements, and to accommodate unprogrammed data gathering requirements. Since 1942 the arsenal has been used for manufacture of chemical warfare items, demilitarization of chemical agents, and destruction of obsolete ordnance. Certain portions were leased for the manufacture of pesticides and herbicides. The Army has identified 165 "possibly polluted" areas on the arsenal, and intends to implement its cleanup strategy at an estimated cost of \$760M. The Army intends to drain the liquid hazardous wastes from Basin F in FY87. |
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| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
|-----------------|-------------------|---|

01/01/76

| St | Name | HRS | Comment |
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|----|-------------------------|-------|---|
| DE | DOVER AIR FORCE BASE | 35.89 | Phase I is complete and Phase II under way at Dover AFB. Base operations, begun 1942, have generated numerous wastes including paints, solvents, and oils. These were disposed of in various on-base locations; some buried in drums, others through the storm drainage system. Groundwater onsite is contaminated with arsenic and other metals, and an on-site stream with trichloroethylene. The base well is free of contaminants found in the groundwater. |
|----|-------------------------|-------|---|

| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
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|----------|----------|----------|
| 10/01/83 | 05/01/84 | 09/01/85 |
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| St | Name | HRS | Comment |
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|----|--------------------------|-------|---|
| GA | ROBINS AIR FORCE BASE | 51.66 | Phase I was completed in 1982, Phase II begun in 1984. Phase IV, with an estimated cost of \$10.9M, was begun in 1985. Thirteen areas contain hazardous wastes from past disposal activities such as landfills, sludge lagoons; fire training areas, petroleum products and chemical spills, and hazardous waste disposal sites. Twelve potential contamination sources were identified in Phase I. Tri- and tetrachloroethylene have been detected in groundwater near the site, and phenols in surface water on the site. |
|----|--------------------------|-------|---|

| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
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| 04/01/82 | 04/01/84 | 04/01/85 |
|----------|----------|----------|

| St | Name | HRS | Comment |
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| IL | JOLIET ARMY AMMUNITION PLANT (LAP AREA) | 32.08 | Phase I (records search) was done in 1978. Phase II was begun in 1984, and remedial actions in 1985. Ordinance production, testing, renovation, and demolition have led to presence of explosive and other wastes. Munitions-related contaminants have been found in monitoring wells and in creek and lake sediments. Actions have included records search (9/78), sampling (11/85 and 4/86), groundwater monitoring, site characterization (11/86), aerial imagery (9/86), and remedial action in the Redwater lagoon to remove water and sludge, construct a liner, and cap with clay (1985). A Federal Facilities Compliance Agreement is currently being redrafted by EPA Region V. |
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| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
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10/21/85

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| IL | JOLIET ARMY AMMUNITION PLANT (MFG AREA) | - | See entry at JOLIET ARMY AMMUNITION PLANT (LAP AREA) for further information. |
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| IL | SAVANNA ARMY DEPOT ACTIVITY | 42.20 | Phases I and II are complete. Since 1918, the Activity has handled, processed, and stored munitions, explosives, and industrial chemicals. Contaminants, primarily trinitrotoluene, have been found in surface and ground water at the depot. An alternatives analysis for explosives contaminated lagoons was started 7/82 and completed 3/85. Incineration of contaminated soil is scheduled for FY85. |
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| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
|-----------------|-------------------|---|

05/01/79 01/01/80

| St | Name | HRS | Comment |
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| LA | LOUISIANA ARMY AMMUNITION PLANT | 30.26 | Phase I is complete and Phase II under way. The hazardous waste site is 16 one-acre settling pits that remove explosive materials from treatment water. Soil, and surface and groundwater are contaminated with di- and trinitrotoluene, phenols, tetryl, and cadmium. An initial RI was completed 2/83, the follow-on RI on 1/31/87. RA for an explosive-contaminated lagoon is set for FY88. An FS task is to be awarded in 3QFY87 after EPA/State review of the RI. |
|----|------------------------------------|-------|--|

| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
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01/01/79 02/01/83

| St | Name | HRS | Comment |
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| MD | ABERDEEN PROVING GROUNDS (EDGEWOOD AREA) | - | Phase I was completed in 1977, and Phase II is ongoing. The area has conducted chemical research programs, manufactured chemical agents, and tested, stored, and disposed of toxic materials. Essentially every land portion in this area is contaminated or potentially contaminated. Substances disposed of include Napalm, white phosphorus, mustard, chloroacetphenone, hydrogen cyanide, cyanogen chloride, adamsite, lewisite, VX, Tabun, Sarin, and Soman. In 1977-1978 an environmental monitoring program was conducted; results indicated contamination of surface- and groundwater. Four standby water supply wells were removed from service in 1983 because of detected VOCs. The Army is continuing to monitor surface- and groundwater and has undertaken a detailed geohydrological study. Cleanup is being addressed in the installation's RCRA permit. |
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| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
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12/01/77

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| MD | ABERDEEN PROVING GROUNDS (MICHAELSVILLE LANDFILL) | - | Phase I was completed in 1983. Phase II is ongoing. Contaminants including lead, mercury, chromium, benzene, and triethyl phosphate were detected in the groundwater on this 20-acre site. Environmental contamination survey and assessment have been performed and surface- and groundwater monitoring is being performed in areas of suspected contamination. Cleanup is being addressed in the installation's RCRA permit. See entry at ABERDEEN PROVING GROUNDS (EDGEWOOD AREA) for further information. |
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| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
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12/01/83

| <u>St</u> | <u>Name</u> | <u>HRS</u> | <u>Comment</u> |
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| ME | NAVAL AIR STATION BRUNSWICK | - | Seven areas were used in the past for storage or disposal of hazardous wastes, including solvents, transformer oil, pesticides, and asbestos. Surface- and groundwater, and adjacent wetlands are threatened by these contaminants. Study is in progress to identify contaminants and determine their migration paths. |
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|-----------------|-------------------|---|
| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
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06/01/83 09/01/84

| <u>St</u> | <u>Name</u> | <u>HRS</u> | <u>Comment</u> |
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| | | | |
|----|--|-------|--|
| MN | TWIN CITIES AIR FORCE RESERVE BASE (SMALL ARMS LF) | 35.00 | Phase I (records search) was completed March 1983. Phase II (hydrogeological investigation) is under way. The base is within and adjacent to the Minneapolis-St. Paul International Airport Complex. Support activities there have included industrial operations such as maintenance and corrosion control shops. The landfill, used from 1963 to 1972, covers somewhat less than three acres along the Minnesota River. It is 500 ft. from the northern boundary of the Minnesota Valley National Wildlife Refuge. General base refuse and paint sludge and filters were disposed of there. Dichloroethylene, in above-background concentrations has been found in a monitoring well on the landfill. The site is subject to periodic flooding, which has lead to release of chromium, lead, and zinc into the Minnesota River. |
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| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
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|----------|----------|----------|
| 03/01/83 | 08/01/84 | 01/01/89 |
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| St | Name | HRS | Comment |
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| MO | LAKE CITY ARMY AMMUNITION PLANT (NW LAGOON) | 33.68 | Phase I was completed September 1985, and an RI in 1986. There are over 60 documented past and present disposal areas on site, connected with the manufacture and loading of small arms ammunition. Solvents and explosives have been detected in the leachate from a closed landfill, and silver was detected in a well downgradient from an old chemical lab lagoon. |
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| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
|-----------------|-------------------|---|

09/01/85

| St | Name | HRS | Comment |
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|----|-------------------------------------|-------|---|
| NE | CORNHUSKER ARMY AMMUNITION PLANT | 51.13 | The plant, built in 1942 as an ammunition load and pack facility, has been operated intermittently since. Groundwater was identified in 1981-1982 as contaminated by explosive compounds (di- and trinitrotoluene, RDX), with high levels at installation's boundary. Drinking water wells in Grand Island were affected. Bottled water was supplied (1/84 through 6/86), a municipal water system for the northwestern area of Grand Island was built (8/84 through 6/86), and a groundwater dewatering system installed (8/84 through 6/86). A soil incineration system for \$6.4M is being procured. Groundwater is being monitored semiannually, dewatering system discharge is being monitored weekly during operations. Hazardous wastes in several contaminated sites will be removed and incinerated in FY87. |
|----|-------------------------------------|-------|---|

| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
|-----------------|-------------------|---|
|-----------------|-------------------|---|

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|----------|----------|----------|
| 03/01/82 | 06/01/81 | 01/01/84 |
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| St | Name | HRS | Comment |
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|----|--------------------------|-------|---|
| NJ | FORT DIX (LANDFILL SITE) | 37.40 | VOC contamination exists at a landfill used between 1950 and 1984 by both Fort Dix and McGuire AFB. |
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| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
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09/01/76 01/01/86

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|----|--|--|--|
| NJ | NAVAL AIR ENGINEERING CENTER LAKEHURST | | |
|----|--|--|--|

- Phase I was completed in 1983 and II begun 1985. Activities at NAEC Lakehurst resulted in discharge into drainage ditches of oily sludge, solvents, and water soluble hydraulic fluids potentially containing the carcinogen nitronomine. Substantial quantities, in excess of one million gallons, of fuels such as AVGAS, JP-5 fuel, and condensate mixed fuel, have been discharged or spilled at various locations and into dry wells, resulting in a 6-inch overlayer of JP-5 fuel on the groundwater in some locations. Unknown quantities of contaminated aviation fuels were received at the tetraethyl lead disposal site, whose soil and shallow ground water are contaminated. Unknown quantities of waste oils, battery acids, and solvents are suspected of having been discharged into some drywells. The soil stabilization field test site has received 362 gallons of aniline and 161 of furfural (toxic by ingestion, inhalation, or skin absorption), and ferric chloride solution, with potential danger to personnel and animals who come in contact with the soils in this area. A sanitary landfill received thousands of gallons of hydraulic fluids, about five tons of asbestos, and unknown quantities of cutting oils, solvents, sludge, and heavy metals. A site used for PCB storage and testing is near the environmentally sensitive Ridgeway Branch. The western portion of NAEC Lakehurst is potentially contaminated with ordnance, including 3-inch shells, gas loaded projectiles, chemicals such as phosgene, phosphorus, and mustard gas, explosives, flares, and depth bombs. Due to the highly permeable nature of soils at NAEC the shallow aquifer in this area may be contaminated and the potential for contamination and migration exists.

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|-----------------|-------------------|---|
| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
|-----------------|-------------------|---|

03/01/83 02/01/85

NJ NAVAL WEAPONS
STATION EARLE
(SITE A)

- Munitions have been handled, stored, renovated, and transshipped at Earle. Also nonordnance activities, radiological operations, material storage, and waste disposal operations have been conducted there. Wastes generated include ordnance materials grit and paint, zinc, lead, titanium, and ammonium picrate. Analysis of a limited number of sediment and surface water samples detected contamination. Phase I is completed and Phase II is under way.

| Phase I | Phase II | Phase IV |
|---------|----------|-----------------------------|
| Done | Begun | Remedial Action Begun |

03/01/83 01/01/85

| <u>St</u> | <u>Name</u> | <u>HRS</u> | <u>Comment</u> |
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|----|-------------------------|-------|--|
| NY | GRIFFISS AIR FORCE BASE | 34.20 | Hazardous wastes on the base are from support of base mission and research and development activities such as industrial shops and laboratories. The various wastes produced were disposed of primarily in landfills and dry wells. Phenols, ethyl benzene, and benzene have been detected in groundwater and toluene in surface water on-base. No off-base wells have been closed due to contamination. Phase I is complete, Phase II nearing completion. |
|----|-------------------------|-------|--|

| Phase I | Phase II | Phase IV |
|---------|----------|-----------------------------|
| Done | Begun | Remedial Action Begun |

| | | |
|----------|----------|----------|
| 06/01/81 | 12/01/82 | 05/01/84 |
|----------|----------|----------|

| St | Name | HRS | Comment |
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| | | | |
|----|--|-------|--|
| OK | TINKER AIR FORCE BASE (SOLDIERS CREEK / BLDG 3001) | 42.24 | Phase I, completed in 1984, identified 14 locations containing hazardous wastes. Disposal sites contain POL sludge, oil solvents, heavy metals, mercury, phenols, and other industrial waste. Some base wells were closed due to chlorinated solvent contamination. Chlorinated solvents were also detected in the aquifer which is the primary regional water source. Phase II investigation confirmed VOC's at all sites with limited migration. |
|----|--|-------|--|

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|-----------------|-------------------|---|
| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
|-----------------|-------------------|---|

09/01/83 09/01/84

| St | Name | HRS | Comment |
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| OR | UMATILLA ARMY DEFOT (LAGOONS) | 31.36 | Past demilitarization and disposal operations has resulted in groundwater beneath dry lagoons being contaminated with RDX and nitrates. The dry lagoons have RDX, trinitrotoluene, nitrate, DDT, lindane, and tri- and tetrachloroethylene contamination. No migration potential was detected in 1980. RI plan development was started in 1987 as part of a Chem Demil Part B Permit application. An RI task is to be awarded 3QFY87 or 4QFT87, depending on EPA input. |
|----|----------------------------------|-------|---|

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|-----------------|-------------------|---|
| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
|-----------------|-------------------|---|

03/01/80

| St | Name | HRS | Comment |
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| | | | |
|----|--------------------------------------|-------|--|
| PA | LETTERKENNY ARMY DEPOT (PDO AREA) | 34.21 | Chlorinated organic solvents and cleaning agents were disposed of by landfilling and spreading on the ground. Groundwater is contaminated with chloroform, di- and trichloroethylene, and trichloroethane. Several studies since 1981 have attempted to identify the sources. An RI/FS, now under way, is scheduled for completion 7/87. Installation of a water distribution system for affected residences was started 1QFY87. |
|----|--------------------------------------|-------|--|

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|-----------------|-------------------|---|
| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
|-----------------|-------------------|---|

02/01/80 09/01/81

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|----|-------------------------------------|---|--|
| PA | LETTERKENNY ARMY DEPOT (SE AREA) | - | See entry for LETTERKENNY ARMY DEPOT (DPO AREA) for details. |
|----|-------------------------------------|---|--|

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|----|---|---|--|
| PA | NAVAL AIR DEVELOPMENT CENTER WARMINSTER | - | |
|----|---|---|--|

| | | |
|-----------------|-------------------|---|
| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
|-----------------|-------------------|---|

12/01/81 06/01/82

| St | Name | HRS | Comment |
|----|------|-----|---------|
|----|------|-----|---------|

| | | | |
|----|--------------------------------|-------|--|
| TN | MILAN ARMY AMMUNITION PLANT | 58.15 | A facility that removes explosives from munitions by injecting high pressure stream of hot water and steam had discharged its effluent into unlined settling ponds. Sediments were routinely dredged and stored on the ground. The ponds were lined in 1981 and the sediments placed in the lined ponds. Explosives and heavy metals have been found in on-site water supply and monitoring wells. The ponds have been closed. Groundwater is being monitored annually (\$101.8K). |
|----|--------------------------------|-------|--|

| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
|-----------------|-------------------|---|
|-----------------|-------------------|---|

| | | |
|----------|----------|----------|
| 11/01/78 | 08/01/81 | 01/01/83 |
|----------|----------|----------|

| St | Name | HRS | Comment |
|----|------|-----|---------|
|----|------|-----|---------|

| | | | |
|----|--|-------|--|
| TX | AIR FORCE PLANT NO. 4 (GENERAL DYNAMICS) | 39.92 | Contamination in a creek near this GOCO installation was discovered in 1983. A private consultant identified 10 sites with potential hazardous waste contamination, primarily trichloroethylene. Four sites have been cleaned up. |
|----|--|-------|--|

| | | |
|-----------------|-------------------|---|
| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
|-----------------|-------------------|---|

08/01/84 02/01/85 04/01/85

| | | | |
|----|------------------------------------|---|--|
| TX | LONE STAR ARMY AMMUNITION PLANT | - | The plant is a GOCO producing a variety of explosives and munitions. Explosives were disposed of by detonation above- and below-ground in a five-acre area during the 1930's. Army tests indicate that heavy metal contamination is present in wells south of the disposal site. Phase I is complete and Phase II under way. A contamination study was conducted 5/80 through 9/83 at a cost of \$355K, and a well/cistern contamination study 9/86 through 11/86 at a cost of \$43K. |
|----|------------------------------------|---|--|

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|-----------------|-------------------|---|
| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
|-----------------|-------------------|---|

07/01/78 12/01/86

| St | Name | HRS | Comment |
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|----|------|-----|---------|

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|----|------------------------|-------|---|
| UT | HILL AIR FORCE BASE | 49.94 | The Base served as an aircraft rehabilitation center and as a prime storage depot for aircraft parts during WW II. There are three areas of known hazardous waste disposal. Wastes disposed of included sulfuric and chromic acids, methyl ethyl ketone, sludge from wastewater treatment plants, trichloroethylene, industrial sludge, and solvent cleaning bottoms. Seepage water near two disposal areas contains detectable concentrations of toxic organic chemicals. Phase I is complete and Phase II is continuing. Phase IV includes capping the landfills to reduce leachate generation, and placement of a slurry wall. |
|----|------------------------|-------|---|

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|-----------------|-------------------|---|
| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
|-----------------|-------------------|---|

1/01/81 01/01/83 09/01/83

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|----|------------------------|---|--|
| UT | OGDEN DEFENSE DEPOT | - | The depot has maintained and repaired vehicles and equipment since 1941. Operations include metal plating, degreasing, painting, and recontainerizing chemicals for storage on- and offsite. Various highly toxic chemical warfare agents are buried on the site. Data from one down-gradient monitoring well indicate that contamination has not migrated off-base. Phases I and II have been completed by the DLA. |
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| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
|-----------------|-------------------|---|

03/01/80 09/01/81

| St | Name | HRS | Comment |
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|----|-----------------------------------|-------|---|
| UT | TOOELE ARMY DEPOT (NORTH AREA) | 38.32 | Spills and leaks of oils, solvent; paint, explosives, and photographic chemicals may have contaminated the groundwater. Arsenic, nickel, lead, and chlorinated hydrocarbons have been found in the groundwater beneath one waste pond, explosives in the soil and groundwater beneath a TNT washout pond, and high arsenic levels in the groundwater throughout the South Area. |
|----|-----------------------------------|-------|---|

| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
|-----------------|-------------------|---|
|-----------------|-------------------|---|

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|----------|----------|
| 06/01/80 | 01/01/86 |
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| <u>St</u> | <u>Name</u> | <u>HRS</u> | <u>Comment</u> |
|-----------|-------------|------------|----------------|
|-----------|-------------|------------|----------------|

| | | | |
|----|----------------------------------|---|--|
| VA | DEFENSE GENERAL SUPPLY CENTER | - | The Center's mission is to manage and furnish military general supplies to the Armed Forces and several Federal civilian agencies. Contamination from several old landfill sites on the Center has migrated to the boundary of the installation. Several hazardous wastes associated with the site, including chloroform, methylene chloride, dichlorobenzene, tetrachloroethylene, and chromium have been found contaminating groundwater on- and offsite. Domestic water of the Center is not affected by contamination. Phase I is complete and Phase II under way. |
|----|----------------------------------|---|--|

| | | |
|-----------------|-------------------|---|
| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
|-----------------|-------------------|---|

08/01/81 03/01/82

| St | Name | HRS | Comment |
|----|------|-----|---------|
|----|------|-----|---------|

| | | | |
|----|-----------------------------|---|---|
| WA | BANGOR ORDNANCE DISPOSAL | - | Over two million pounds of explosive ordnance have been demilitarized at Bangor Ordnance Disposal. Surface and shallow groundwater are contaminated with RDX and TNT. A small residential community lies to the north in the direction of groundwater flow. An initial assessment study, completed in 1983, concluded that further investigation is needed at the ordnance disposal site and other sites of the facility. |
|----|-----------------------------|---|---|

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|-----------------|-------------------|---|
| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
|-----------------|-------------------|---|

06/01/83 11/01/84

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|----|-----------------------------|-------|---|
| WA | FORT LEWIS (LANDFILL #5) | 42.78 | Prior to the mid-1970s, wastes resulting from industrial operations such as maintenance of aircraft and vehicles, refurbishing of weapons, and neutralization of caustic paint-stripping wastes were disposed of in on-site landfills. Hazardous wastes such as spent solvents, plating wastes, pesticides, and PCBs may have been disposed of at these sites. Hazardous chemicals have been detected and monitoring wells have been installed. |
|----|-----------------------------|-------|---|

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| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
|-----------------|-------------------|---|

12/01/83

| St | Name | HRS | Comment |
|----|------|-----|---------|
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|----|--|-------|---|
| WA | MCCHORD AIR FORCE BASE (WASH RACK / TREATMENT) | 43.24 | Since 1940, almost 500,000 gallons of hazardous substance has been used and disposed of at the base. Methylene chloride, chloroform, benzene, arsenic, chromium, and mercury have been detected in test wells on-base and in surface drainage leaving the base. One identified site consists of a liquid waste spill adjacent to the wash rack and industrial waste treatment system. The contracted work for the American Lake Gardens Water Supply Project began 4/85 and is progressing. The Phase II contractor installed shallow wells and one deep well. Ground penetrating radar and resistivity studies did not confirm the presence of any containers nor establish a source of contamination. |
|----|--|-------|---|

| Phase I Done | Phase II Begun | Phase IV Remedial Action Begun |
|-----------------|-------------------|---|
|-----------------|-------------------|---|

| | | |
|----------|----------|----------|
| 08/01/82 | 07/01/83 | 02/01/85 |
|----------|----------|----------|

St NAME

**NA NAVAL AIR STATION
WHIDBEY ISLAND
(AULT)
(SEAPLANE)**

- Phase I was completed 1984, Phase II begun 1985. NAS Whidbey Island occupies four separate areas on the island, which it shares with the City of Oak Harbor. Landfills at Ault Field, in use since 1959, were used for liquid wastes including paints and solvents, oils, heavy metals, pesticides, and caustic wastes. A 12 acre fuel farm at the Seaplane Base has been in use since the 1940's, and Building 49 has been used as an automotive repair and paint shop since 1960 or earlier. Past disposal practices have created the potential for groundwater contamination. Transformer maintenance activities resulted in disposal on the ground of about 1000 gallons of transformer fluid, at several locations, some of which may have been PCB. Pentachlorophenol drips and spills have occurred at the site of a PCP dip tank. Other ground maintenance activities have resulted in discharge of waste oil, solvents, fuel, and caustic rinseate containing heavy metals, through the storm sewer system and into Dugella Bay. Waterfowl and fish that feed or live in the drainages may be affected. There is potential contamination of the food chain that may threaten the occasional bald eagle and peregrine falcon that visit the area. Subsurface migration at the Seaplane Base may have impacted fish or shellfish populations in Oak and Crescent Harbors. A sea level unconfined aquifer underlies most of the island and is the primary and sole source of water for most of rural Whidbey Island. The EPA has designated the aquifer as a sole source aquifer for purposes of new development. The City of Oak Harbor and the Ault Field facilities, unlike most of the island, import fresh water by pipeline from the mainland. Two wells are maintained as backup. One, Well No. 4 at Ault Field, is threatened by potential migration of contaminants.

| Phase I | Phase II | Phase IV |
|---------|----------|-----------------------------|
| Done | Begin | Remedial Action Begin |

09/01/84 11/01/85

| ST | NAME | HRS | Comment |
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|----|------|-----|---------|

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|----|---|--|--|
| WA | NAVAL UNDERSEA WARFARE ENGINEERING STATION KEYPORT | | |
|----|---|--|--|

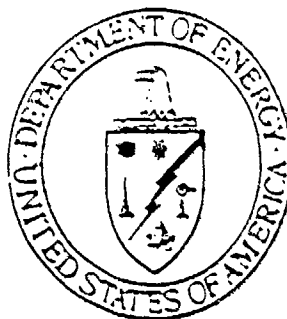
| | | | |
|--|--|--|--|
| | | | <p>- NUWES Keyport is on a peninsula that it shares with the town of Keyport. On the north and east it is bounded by Liberty Bay and a shallow lagoon; on the west, by Dogfish Bay. A seven-acre landfill was the primary industrial waste disposal area from the 1930's to 1973. Before being filled it was a saltwater marsh, an extension of the tidal flats which are part of Dogfish Bay. Another site was the scene of a several thousand gallon spill of plating baths in 1976, with washdown into the soil, a creek, and the shallow lagoon. The tide flats and Dogfish Bay are used for recreational fishing and shellfish gathering. Dogfish Bay is also used commercially for oyster growing. Contamination associated with the prior use includes acid plating wastes with heavy metals and cyanides, waste paints, solvents, and thinners, Otto Fuel, pesticide rinsates, and contaminated wastewater treatment plant sludge. The geology is dominated by glacial till, outwash clays, and gravel. A shallow sea level aquifer and a deeper sand and gravel aquifer underlie the base. Two wells at NUWES tap the lower sand and gravel aquifer. These wells are not contaminated. However, past practice has probably contaminated portions of the sea level aquifer. Past disposal practices have discharged pollutants directly to Liberty Bay and a saltwater marsh, with potential contamination of water sediments and biota off-station and potential impacts on fish and shellfish in Liberty and Dogfish Bays.</p> |
|--|--|--|--|

| | | |
|-----------------|-------------------|--|
| Phase I Done | Phase II Begun | Phase III Remedial Action Begun |
|-----------------|-------------------|--|

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|----------|----------|
| 09/01/84 | 11/01/85 |
|----------|----------|

TAB E

Report of the DoD/EPA/DOE Working Group to Explore
Hazardous Waste Technology Cooperative Efforts,
December 1986



REPORT OF THE
DOD/EPA/DOE WORKING GROUP
TO EXPLORE HAZARDOUS WASTE
TECHNOLOGY COOPERATIVE EFFORTS

DECEMBER 1986

REPORT OF THE
DOD/EPA/DOE WORKING GROUP
TO EXPLORE
HAZARDOUS WASTE TECHNOLOGY
COOPERATIVE EFFORTS

PEER Consultants, Inc.
1160 Rockville Pike, Suite 202
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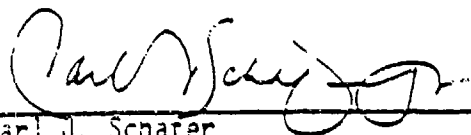
December 1, 1986

In 1985, a DOD/EPA working group was established to address the issues of the high cost of hazardous waste cleanup in this country; the need for innovative technology development to achieve in a more cost-effective manner the necessary cleanup goals, and; the technology development which is taking place within DOD and EPA and the need to cooperate and coordinate these efforts. As a result, 31 joint projects were proposed, most of which have received funding and are currently in progress.

To continue the dialogue begun in 1985, the working group, joined this year by DOE, met on June 11-12, 1986 to discuss:

- o the hazardous waste research and cleanup priorities within each agency;
- o the progress made on last year's efforts;
- o possible new cooperative efforts, and;
- o EPA's Superfund Innovative Technology Evaluation (SITE) program and DOD's and DOE's possible involvement in the program.

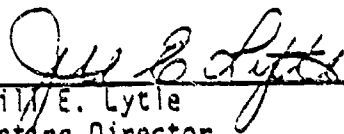
The following report is the second annual report on the cooperative efforts program. Our original goal remains the same: to encourage the use of emerging hazardous waste cleanup technologies.



Carl J. Schafer
Deputy Assistant
Secretary of Defense (Environment)
Office of the Secretary of Defense



Vaun A. Newill
Assistant Administrator for
Research and Development
U.S. Environmental Protection Agency



Jill E. Lytle
Acting Director
Office of Defense Waste and Transportation Management
U.S. Department of Energy

EXECUTIVE SUMMARY

In Spring 1985, a joint Department of Defense (DOD)/Environmental Protection Agency (EPA) working group was formed by the direction of Carl J. Schafer, Jr. and Dr. Bernard D. Goldstein, to discuss the possibility of cooperative efforts in hazardous waste cleanup demonstrations and innovative technology research and development. As a result of two meetings held in 1985, 31 joint projects were proposed, 15 of which were already in progress. The joint efforts have resulted in considerable quality improvements and cost savings.

Due to the success of last year's meetings and in an effort to continue the cooperation between federal agencies on hazardous waste cleanup, EPA sponsored another working group meeting held on June 11-12, 1986. Representatives from DOD, EPA, and the Department of Energy (DOE) attended and discussed the progress of last year's proposed joint efforts, recommended new joint efforts, and discussed EPA's Superfund Innovative Technology Evaluation (SITE) Program.

Last year's efforts were reviewed and updated by DOD and EPA; many of the projects have continued to receive funding and are currently in progress. In addition, over 50 new cooperative efforts were proposed by DOD, EPA and DOE representatives. All of the on-going and newly-proposed cooperative efforts projects are listed in Table 1; a description of each project is given in Appendix A. Costs and estimates are provided for planning purposes only.

EPA's SITE Program and the development of innovative hazardous waste cleanup technologies were topics of discussion at the meeting. The SITE program has been set up to encourage the development of innovative cleanup technologies both in the private and public sectors by providing the opportunity to demonstrate developed technologies at actual hazardous waste sites. A steering group (pg. 21, Fig. 6) was formed to discuss ways in which the SITE program could be structured to streamline the technology-demonstration site matching process. Background information on the SITE program is presented in Appendix B.

Table 1

DOE/EPA/DOE HAZARDOUS WASTE COOPERATIVE EFFORTS

| CATEGORY | PROJECT (a Cooperative Effort in Progress) | PAGE NO. | DOO | COORDINATORS EPA | DOE |
|--|--|---|---|--|--|
| In-Situ Treatment | | | | | |
| - Detoxification (chemical & biological) | #1. Groundwater Treatment Tech. #2. Microbial Degrad. - Soils & GJ #3. RF Thermal Decontamination #4. TCE Anaerobic Degradation (MSKERL) #5. Fuel Oil Microbial Degradation #6. Biodegrad. to Restore Aquifers 7. Soil Bioreactor #8. Aqueous 9. Extract. of VOCs from Soils | A-1 A-2 A-3 A-4 A-5 A-6 A-7 A-8 A-9 | Mahannah (USATMVA) Bartell (USATMVA) Heyse (AFESC) Downey (AFESC) Ashworth (AFESC) Chan (NCEL) Powers (NCEL) Walker (AFESC) Heyse (AFESC) Wynne (USATMVA) Downey (AFESC) Powers (NCEL) | Lewis (INJERL) Hill (INJERL) James (INJERL) Hill (INJERL) Rogers (INJERL) Dunlap (MSKERL) Wilson (MSKERL) James (INJERL) Hill (INJERL) Kealey (MSKERL) Wilson (MSKERL) Dial (INJERL) James (INJERL) Hill (INJERL) de Fercin (INJERL) | Bauman (ORIL) Bauman (ORIL) Bauman (ORIL) Bauman (ORIL) Bauman (ORIL) Bauman (ORIL) Bauman (ORIL) Bauman (ORIL) |
| - Extraction | | | | | |
| On-Site Cleanup | | | | | |
| - Thermal | #1. Catalytic Destruct. of VOCs | A-10 | Ashworth (AFESC) | Tichenor (EPA) | |
| - Chemical | #2. Mobile Carbon Regenerator | A-11 | Mahannah (USATMVA) Bartell (USATMVA) | Traver (EPA) Hill (INJERL) | |
| - Extraction | 3. Aqueous-Based Decant. of Excav. Soils | A-12 | Downey (AFESC) | Freestone (EPA) Hill (INJERL) | Bauman (ORIL) |
| - Biological | 4. Surface-Based Treat. of Contam. GJ | A-13 | Ashworth (AFESC) | Dunlap (MSKERL) | Bauman (ORIL) |
| Containment | | | | | |
| - Barriers | #1. Bentonite Clay Barriers | A-14 | Strang (MS) | Grube (INJERL) | |
| | 2. Foams to Abate Tox. Gas Releases | A-15 | Quintrell (USATMVA) Den Bleyker (AFESC) | Hill (INJERL) Brugger (EPA) | Bauman (ORIL) |
| | 3. KCKA-Design Landfill Cover | A-16 | Bartell (USATMVA) Downey (AFESC) | Hill (INJERL) | Burton (ORIL) |
| - Storage | 4. Double-Liner System | A-17 | Downey (AFESC) Riggins (CERL) Powers (NCEL) Francques (Army) Palmer (AEO) Peters (AFESC) | Hill (INJERL) Hartley (INJERL) | Burton (ORIL) |
| - Stabilization | 5. Stabil. of Waste at Superfund Sites | A-18 | | Sanning (INJERL) | Burton (ORIL) |

Table 1, cont.

| CATEGORY | PROJECT (a Cooperative Effort in Progress) | PAGE NO. | COORDINATORS | | DOE |
|--------------------------------------|---|----------|-----------------------|--------------------------|--------------------|
| | | | DOE | EPA | |
| Site Assessment | | | | | |
| - Sampling & Analysis | 1. Sampling Method for Rect. PBHC | A-19 | Ryan (USATWMA) | Johnson (AEERL) | Parker (ORNL) |
| | 2. Stability and Holding Times | A-20 | Lang (USATWMA) | Bottrell (ENSL-LV) | Maskarinec (ORNL) |
| - Monitoring | | | Akerlund (AFESC) | Williams (ENSL-LV) | Burton (ORNL) |
| | 3. Organo-Tin Analysis | A-21 | Yaroschak (NFEC) | Koutsandreas (DAENQA) | |
| | | | Selighan (NOSC) | Billits (ENSL-LV) | |
| | 4. Stat.-Defined Toxicity Gradients | A-22 | Collins (USACRDEC) | Peterson (ERL-Corvallis) | |
| - In-Situ Monitoring of Organics | | | Hana (Fl. Lewis) | Miller (ERL-Corvallis) | |
| | | | Riggins (CERL) | Flatman (ENSL-LV) | |
| | | | Lang (USATWMA) | Quinn (ORD) | Bauman (ORNL) |
| | | | Walker (AFESC) | Koutsandreas (DAENQA) | |
| - Monitor DOE Haz. Waste | | A-24 | Lombard (AF-SGPA) | Weber (ENSL-Cin) | Strickler (DOE-HQ) |
| | | | | Lichtenburg (ENSL-Cin) | Burton (ORNL) |
| 7. Monitoring & QA | | A-25 | Wynne (USATWMA) | Pearson (ENSL-LV) | Horne (ORNL) |
| | | | Akerlund (AFESC) | Winter (ENSL-Cin) | |
| 8. On-Line Cont. Emission Monitoring | | | Joshi (AFESC) | Puzak (ENSL-RTP) | Parker (ORNL) |
| | | | | Nolan (AEERL) | |
| | | | | Condie (HERL) | |
| | | | | Berry (EAO-RTP) | |
| - Risk Assessment | | | Haugle (GASD) | Chen (EPA) | |
| | | | Shelley (AF-MRL) | Quinn (ORD) | Burton (ORNL) |
| | | | Rosenblatt (USAFBURL) | | Layton (LLNL) |
| | | | Lombard (AF-SGPA) | | Burton (ORNL) |
| 12. Waterborne Contaminants | | | Shelley (AF-MRL) | | |
| | | | Johnston (NOSC) | Ambrose (ERL-Athens) | |
| | | | Adema (Navy-DTRL) | McCutcheon (ERL-Athens) | |
| | | | Butler (Army-UES) | | |
| 13. RA for DOE-Impacted Estuaries | | | Dorich (Army-UES) | | |
| | | | Lang (USATWMA) | Koutsandreas (DAENQA) | Bauman (ORNL) |
| | | | Walker (AFESC) | Eccles (ENSL-LV) | |
| | | | Lieberman (Navy) | | |
| - Remote Sensing & Detection | | | Roberts (NCEL) | Holle (EPA-EPIC) | |
| | | | Wynne (USATWMA) | | |
| | | | Swann (USATWMA) | Pitchford (ENSL-LV) | |
| | | | Heise (AFESC) | | |
| - Subsurface Transport | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Table 1, cont.

| CATEGORY | PROJECT (a Cooperative Effort in Progress) | PAGE NO. | DDO | COORDINATORS EPA | DOE |
|------------------------|---|----------|--|--|--|
| Site Assessment, cont. | | | | | |
| - Data Management | 19. Data Management & Mapping | A-37 | Holly (USATHWA) Roberts (USATHWA) | Koutsandreas (DADENGA) Landers (EMSL-LV) | |
| | 20. Toxicology Guide | A-38 | Lombard (AF-SGPA) Shelley (AWRL) | Berry (ECAO-RTP) | |
| | 21. Hazardous Waste Data Base | A-39 | | Dial (INJERL) Lee (INJERL) | Fore (ORIL) |
| | 22. HAZWOP II | A-40 | Lombard (AF-SGPA) Sanders (USAF-OEHL) | | Barnhouse (ORIL) Smith (ORIL) Burton (ORIL) Bauman (ORIL) |
| | 23. Multimedia Pollution Control | A-41 | Bartell (USATHWA) Resard (USATHWA) Peters (AFESC) Gibbs (NSMC Dahlgren) Olsh (NCEL) | Wilmoth (WERL) Burckle (WERL) Darvin (AEERL) | |
| | 24. EM4 Systems | A-42 | Lingua (NCEL) Elliott (NCEL) Walker (AFESC) Bartell (USATHWA) Barkley (USABROL) Henry (USABROL) Pierce (DGA/COE) | Pitchford (EMSL-LV) | Burton (ORIL) |
| | 25. Genetic Tox. Data | A-43 | | Williams (EMSL-LV) Pearson (EMSL-LV) Burns (ERL-Athens) Holm (ERL-Athens) | |
| | 26. EC2 System for Wetlands | A-44 | | | |
| - Site Management | 27. Federal Workshop | A-45 | Offenbuttel (AFESC) | Dial (INJERL) Lee (INJERL) Koutsandreas (DADENGA) | Sleeman (DOE-GR) |
| | 28. Contaminants in Marine Environments | A-46 | Yamanoto (HOSC) Setigman (HOSC) | Jaworski (ERL-Harragansett) Gentile (ERL-Harragansett) | |
| High Hazard Wastes | | | | | |
| - Dioxins/Furans | 01. APEG Reagents | A-47 | Herse (AFESC) | Dial (INJERL) Rogers (INJERL) | |
| - PCBs | 02. PCB Contam. at PUC, Guam | A-48 | Olson (HPEC) Chan (NCEL) | des Rosiers (OEET) Dial (INJERL) Rogers (INJERL) | |
| | 03. PCB Electrochem. Decont. | A-49 | Lingua (NCEL) | des Rosiers (OEET) Westfall (INJERL) Dial (INJERL) des Rosiers (OEET) | |

Table 1, cont.

| CATEGORY | PROJECT (a Cooperative Effort in Progress) | PAGE NO. | DDO | COORDINATORS EPA | DOE |
|---|---|----------|---|---|--------------------------------|
| Alternative Technologies to Land Disposal | | | | | |
| - Thermal Destruction of Hazardous Waste Incineration | 1. Hazardous Waste Incineration | A-50 | | Freestone (HJERL) Ponder (AEERL) Hill (HJERL) | Parker (ORNL) Parker (ORNL) |
| - Process Microwave Heating | 2. Process Microwave Heating | A-51 | Sisk (USATHWA) Downey (AFESC) | | |
| - Low NOx Incinerator | 3. Low NOx Incinerator | A-52 | Fu (HCEL) | McSorley (AEERL) | Parker (ORNL) |
| - Destruct. of PCB Residues | 4. Destruct. of PCB Residues | A-53 | Bartell (USATHWA) Peters (AFESC) | Darvin (AEERL) | Parker (ORNL) |
| - Co-Firing Haz. Waste in Navy Boilers | 5. Co-Firing Haz. Waste in Navy Boilers | A-54 | Zimmerle (HCEL) | | |
| - Infrared Incineration | 6. Infrared Incineration | A-55 | Koudsen (HSAC) Lingua (HCEL) Powers (HCEL) | Lee (HJERL) Lee (HJERL) | Burton (ORNL) Parker (ORNL) |
| - Heavy Metal Extraction | 7. Heavy Metal Extraction | A-56 | Hangland (USATHWA) | Howell (HJERL) Dial (HJERL) | |
| - Supercritical Water Oxidation | 8. Supercritical Water Oxidation | A-57 | | Hill (HJERL) | Burton (ORNL) |
| - Paramagnetic Separation | 9. Paramagnetic Separation | A-58 | Zachritz (AFESC) | Dial (HJERL) | Burton (ORNL) |
| - Waste Acid Detox. & Reclamation | 10. Waste Acid Detox. & Reclamation | A-59 | Wynne (USATHWA) Peters (AFESC) | Dial (HJERL) Christian (HJERL) | Bauman (ORNL) |
| - By-Product Expert System | 11. By-Product Expert System | A-60 | Zimmerle (HCEL) Riggins (CERL) Peters (AFESC) | Christian (HJERL) | Burton (ORNL) |
| - Process Material Substitution | 12. Process Material Substitution | A-61 | Riggins (CERL) Peters (AFESC) Roberts (HCEL) | Christian (HJERL) | Bauman (ORNL) |
| Undeveloped Storage Tanks | | | | | |
| - Leak Detection | 1. Leak Detection Methods | A-62 | Bolce (DSO) | Field (HJERL) Hill (HJERL) | |
| - External Monitoring | 2. External Monitoring | A-63 | Bindal (AFESC) Randall (DLO) | Van Ee (EMSL-LV) | McBrayer (ORNL) |
| - Cleanup | | | | | |

TABLE OF CONTENTS

| | <u>Page</u> |
|---|-------------|
| Executive Summary | v |
| List of Figures | xi |
| Background | 1 |
| Meeting Minutes | 1 |
| Session 1: Overview of Each Agency's Hazardous Waste Program | 1 |
| Session 2: Overview of Technological Problems and Progress | 8 |
| Session 3: Overview and Discussion of EPA's SITE Program | 11 |
| Session 4: Review of 1985 Cooperative Efforts | 13 |
| Session 5: Discussion of Proposed New Cooperative Research Efforts | 16 |
| Session 6: EPA's SITE Program and DOD/DOE Involvement | 19 |
| Appendix A: DOD/EPA/DOE Hazardous Waste Cooperative Efforts | A-1 |
| Appendix B: EPA's SITE Program | 8-1 |

LIST OF FIGURES

| <u>Title</u> | <u>Page</u> |
|--|-------------|
| Figure 1: Meeting Agenda | 2 |
| Figure 2: EPA Attendees | 3 |
| Figure 3: DOD Attendees | 4 |
| Figure 4: DOE Attendees | 6 |
| Figure 5: Overview of EPA Research in Monitoring and Quality Assurance | 9 |
| Figure 6: Steering Group to Discuss EPA's SITE Program | 21 |
| Figure 7: SITE Demonstration Technologies | 22 |

REPORT OF THE
DOD/EPA/DOE WORKING GROUP
TO EXPLORE
HAZARDOUS WASTE TECHNOLOGY
COOPERATIVE EFFORTS

BACKGROUND

The interagency working group to explore hazardous waste cooperative efforts was first formed in 1985 when representatives from the Department of Defense (DOD) and the Environmental Protection Agency (EPA) met to discuss possible joint demonstration projects in hazardous waste technology and site remediation to more cost-effectively handle the hazardous waste problems faced by both agencies. As a result, 31 joint projects were proposed, many of which have received funding and are currently in progress. In an effort to continue the interagency dialogue on hazardous waste problems, the EPA hosted another working group meeting on June 11-12, 1986, attended by representatives from DOD, EPA, and the Department of Energy (DOE). An abbreviated meeting agenda is listed in Figure 1; the meeting attendees from each agency are listed in Figures 2 through 4. The meeting minutes and the joint projects which were discussed are presented in this report.

MEETING MINUTES

Session 1: Overview of Each Agency's Hazardous Waste Program

EPA--

John Skinner, Director of the EPA Office of Environmental Engineering and Technology, was the meeting moderator and opened Session 1 by welcoming all attendees especially those from DOE, the newest member of the working group. Mr. Skinner spoke briefly about EPA's funding problems until the CERCLA (Superfund) is approved by Congress, but was optimistic that once funding was approved, EPA's Superfund Innovative Technology Evaluation (SITE) program could proceed. Additional programs are also planned in the health-related and groundwater areas.

DOD--

Thomas Dashiell, Director of Environmental and Life Sciences for DOD/OUSORE, gave the opening comments for DOD. Mr. Dashiell stated that hazardous waste management is emerging as an important issue in DOD; a stable effort is being made as evidenced by continued funding support and a five-year planning phase. An effort is being made, also, to coordinate activities within DOD between the Army, Navy, and Air Force.

DOD recognizes that they have a problem with contaminated sites at some of their facilities and are searching for solutions. DOD strongly supports any cooperative efforts which can be made with EPA and DOE. Mr. Dashiell suggested looking to European technology, as well, because it tends to be cheaper than American technology.

FIGURE 1
MEETING AGENDA

June 11

- Session 1: Statement from EPA/DOD/DOE Principal Representative
- Session 2: Overview of technological problems and progress in the area of hazardous waste. A discussion of technological needs and associated problems and solutions of each Agency.
- Session 3: Overview and discussion of EPA's Superfund Innovative Technology Evaluation (SITE) Program
- Session 4: Review and discussion of the progress on the first year's cooperative efforts

June 12

- Session 5: Discussion of proposed new cooperative research efforts
- Session 6: Discussion of EPA's SITE Program and DOD's and DOE's potential involvement

FIGURE 2

EPA ATTENDEES AT THE JUNE 11-12, 1986
HAZARDOUS WASTE WORKING GROUP MEETING

U.S. EPA Headquarters, 401 M Street, S.W., Washington, D.C. 20460

Mr. Paul E. des Rosiers 202/382-2722
Office of Environmental Engineering and Technology, EPA/ORD

Ms. Linda Galen 202/382-7929
Office of Emergency and Remedial Response/HRSD, EPA/OSWER

Mr. John D. Koutsandreas 202/382-5789
Office of Acid Deposition, Environmental Monitoring and Quality
Assurance, EPA/ORD

Mr. Alfred Lindsey 202/382-4073
Deputy Director,
Office of Environmental Engineering and Technology, EPA/ORD

Mr. Herbert Quinn 202/382-5940
Water and Land Division
Office of Environmental Processes and Effects Research, EPA/ORD

Mr. John Skinner 202/382-2600
Director,
Office of Environmental Engineering and Technology, EPA/ORD

Mr. Henry R. Thacker 202/382-5747
Office of Environmental Engineering and Technology, EPA/ORD

U.S. EPA Hazardous Waste Engineering Research Lab, Cincinnati, OH 45268

Mr. Ronald Hill FTS/684-7861
Land Pollution Control Division
Office of Environmental Engineering and Technology

U.S. EPA Environmental Monitoring Systems Lab, P.O. Box 15027, Las Vegas, NV
89114

Mr. J. Gareth Pearson 702/798-2383
Quality Assurance and Methods Development Division, EPA/EMSL-LV

U.S. EPA Research Triangle Park, NC 27711

Mr. Joe McSorley 919/541-2920.
Air and Energy Engineering Research Laboratory

Mr. Wade Ponder 919/541-2818
Air and Energy Engineering Research Laboratory

FIGURE 3

ODD ATTENDEES AT THE JUNE 11-12, 1986
HAZARDOUS WASTE WORKING GROUP MEETING

Office of the Secretary of Defense

Mr. Thomas R. Dashiell 202/697-8714
Director, Environmental and Life Sciences
OURDR & E, Room 3D129, The Pentagon
Washington, DC 20301-3080

Lt. Col. Dennis F. Naugle 202/653-1273
Assistant Director, Environmental Policy
OASD/A&L, Room 3D833, The Pentagon
Washington, DC 20301

Mr. William Randall 202/274-6124
Defense Logistics Agency
Cameron Station, VA 22304

Mr. S. Matthew Prastein 202/653-1273
DELP
1717 H Street, N.W., Suite 202
Washington, DC 20006

U.S. Army

Mr. Clemens Meyer 202/272-0259
Army Corps of Engineers, DAEN-ROM
20 Massachusetts Avenue, N.W.
Washington, DC 20314-1000

Mr. David G. Palmer 202/694-3434
Department of the Army, DAEN-ZCE
Washington, DC 20310-2600

Mr. Robert Bartell 301/671-2054
Chief, Environmental R&D Section

Mr. Daniel Lillian 301/671-2054

Mr. Dennis J. Wynne 301/671-2466
Chief, Technology Division
USATHAMA
Aberdeen Proving Ground, MD 21009

FIGURE 3

DOD ATTENDEES AT THE JUNE 11-12, 1986 HAZARDOUS WASTE WORKING GROUP MEETING (Continued)

U.S. Navy

| | |
|---|--------------|
| Lcdr. Daniel Spiegelberg | 202/325-0435 |
| Mr. Dave Olson | 202/325-8176 |
| Mr. Brian Higgins | 202/325-8176 |
| Naval Facilities Engineering Command 200 Stoval Street Alexandria, VA 22332 | |
| Ms. Mary Lingua | 805/982-3310 |
| NCEL L70PM Port Hueneme, CA 93043 | |
| Mr. Peter Seligman | 619/225-7697 |
| Naval Ocean Systems Center Marine Environment Branch (Code 522) San Diego, CA 92107 | |

U.S. Air Force

| | |
|--|--------------|
| Lt. Col. Robert Lombard, USAF, BSC | 202/767-1736 |
| HQ USAF/SGPA Bolling AFB Washington, DC 20332-6188 | |
| Lt. Col. Robert F. Olfenbuttel, USAF, BSC | 904/283-2097 |
| Chief, Environics Division | |
| Maj. Thomas J. Walker, USAF, BSC | 904/283-4628 |
| Chief, Environmental Engineering Branch HQ, AFESC/RDV Tyndall AFB, FL 32403-6001 | |

FIGURE 4

DOE ATTENDEES AT THE JUNE 11-12, 1986 HAZARDOUS WASTE WORKING GROUP MEETING

U.S. DOE/Headquarters, Washington, DC 20545

Mr. Gerald H. Daly 202/353-4971
Defense Programs, DP-124

Ms. Jill Lytle 202/353-3641
Director, Defense Waste and Transportation Management, DP-12

Mr. Bob Strickler FTS/252-4160
Office of Environmental Audit/Compliance

U.S. DOE/ORD, Oak Ridge National Laboratory, Oak Ridge, TN 37831

Mr. L. Dean Eyman 615/574-7299
FEDC, P.O. Box Y

Mr. Richard Genung 615/574-6830
P.O. Box P, Bldg. K-1000

Mr. Robert Sleeman 615/676-0715
P.O. Box E

U.S. DOE, Idaho Operations Office, 550 2nd Street, Idaho Falls, ID 83401

Mr. Isamu Aoki 208/526-0583

Mr. H.D. Williams 208/526-1763

U.S. DOE, Pacific Northwest Laboratories, Battelle Blvd., Richland, WA 99352

Mr. T.J. McLaughlin 509/375-3723

U.S. DOE, Savannah River Laboratory, Aiken, SC 29808

Mr. Donald E. Gordon 803/725-5182

Ms. Debbie S. Browning 803/725-5543
DOE-SR
P.O. Box A
SRL Aiken, SC 29801

U.S. DOE, San Francisco Operations Office, 1333 Broadway, Oakland, CA 94612

Mr. Gerald Katz 415/273-6353

U.S. DOE, Chicago Operations Office, 9800 S. Cass Ave., Argonne, IL 60439

Mr. William J. Griffing 312/972-2241

FIGURE 4

DOE ATTENDEES AT THE JUNE 11-12, 1986
HAZARDOUS WASTE WORKING GROUP MEETING
(Continued)

U.S. DOE, Albuquerque Operations Office, P.O. Box 5400, Albuquerque, NM 87115

Mr. James F. Bresson 505/722-3401
Waste Management & Transportation Development Division

Mr. Randy F. Reddick 505/846-4340
ESHD

DOE--

Jill Lytle, Director of DOE's Office of Defense Waste and Transportation Management, spoke for the DOE and also welcomed the opportunity for cooperative efforts with EPA and DOD. She stated that the DOE's primary hazardous waste problem is disposal of radioactive waste. Any joint demonstration and research opportunities are welcomed by DOE and they are seeking cost-effective long-term solutions to their hazardous waste problems.

Session 2: Overview of Technological Problems and Progress

EPA/HWERL--

Ronald Hill, Director of EPA's Land Pollution Control Division of the Hazardous Waste Engineering Research Laboratory (HWERL) located in Cincinnati, Ohio, presented several of the problems which are actively being confronted by EPA including land banning and leaking underground storage tanks (UST). Land banning or the restriction of certain wastes from landfills is leading to research in alternative disposal methods including incineration, chemical/physical treatment, fixation processes, and pre-treatment before disposal.

Underground storage tanks are now recognized as a major contributor to soil and groundwater contamination particularly petroleum storage tanks. Research efforts are being outlined and will include internal leak detection methods, improved design, installation, and selection of underground storage tanks, and remedial actions for leaking underground storage tanks.

In conclusion, Mr. Hill stated that the research trends at EPA/HWERL are in the areas of alternative technologies for in-situ treatment and disposal of hazardous waste.

EPA/AEERL--

Mr. Wade Ponder, from EPA's Air and Energy Engineering Research Laboratory (AEERL) in Research Triangle Park, North Carolina, presented an overview of AEERL's current research efforts. Research is being done in the areas of in-situ treatment of sulfur sludges, in-situ cleanup of VOCs and waste oil, containment (ponds and pond liners), site assessment, air quality standards for air emissions, and alternative hazardous waste combustion technologies. The AEERL also offers support to HWERL in their leaking underground storage tank research.

EPA/EMSL--

Mr. J. Gareth Pearson, representing EPA's Office of Acid Deposition, Environmental Monitoring and Quality Assurance, gave an overview of EPA research in monitoring and quality assurance. The Environmental Monitoring Systems Laboratory's (EMSL) current research priorities are summarized in Figure 5. Mr. Pearson stated that the analytical standards being set as part of the Quality Assurance program could be made available to other agencies, such as DOD and DOE.

FIGURE 5

OVERVIEW OF EPA RESEARCH IN MONITORING AND QUALITY ASSURANCE*

Analytical Methods: Validation of SW-846 RCRA Analytical Methods

- o Organic GC Methods
- o Organic GC/MS Methods
- o Dioxin GC/MS Methods
- o Inorganic ICP Methods
- o Sample Preparation Methods
- o Sample Cleanup Methods
- o Toxicity Characteristic Leaching Procedure

Analytical Methods: Development

- o Volatile Organic Sample Testing (VOST): Sampling and Analytical Methods
- o Semi-VOST: Sampling and Analytical Methods
- o On-Line Monitors in Incinerators (CO and HCl)
- o Method for Non-GC Compounds: HPLC/MS and LC/MS/MS
- o Enhanced Sensitivity/Specificity: GC/FTIR (Super Critical Fluids) and GC/FTIR/MS

Quality Assurance

- o Analytical Standards (Cooperating with FDA)
- o Quality Control and Reference Materials
- o Laboratory Performance Monitoring
- o Performance Evaluations Studies and Materials
- o QA Database Development and Operations
- o Sample Holding Time Studies
- o Sample Quality Assurance Manuals/Procedures

Measurement Methods for Subsurface Characteristics and Monitoring

- o Indicator Parameters
- o Soil Gas Monitoring Methods
- o Vadoze Zone Monitoring Methods
- o Geophysical Monitoring Methods
- o Borehole Sensing Methods
- o Fiber Optic Sensors (with Lawrence Livermore Lab)
- o Standardization of Groundwater Methods

Monitoring Design

- o Statistical Design and Analysis
- o Geostatistical Methods Development
- o Well Placement/Monitoring Design

FIGURE 5

OVERVIEW OF EPA RESEARCH IN
MONITORING AND QUALITY ASSURANCE*
(Continued)

Monitoring Design (Continued)

- o Seasonal Variation
- o Wet Environment Monitoring
- o Fractured Zone Monitoring
- o External Monitoring of Underground Storage Tanks

Remote Sensing

- o Remote Imagery
- o Topographic Map Production
- o Application and Analysis of Geographic Information Systems (GIS)
- o Advanced Remote Sensing Systems

Source: Koutsandreas, John D. (EPA/OAEMQA) and Pearson, J. Gareth
(EPA/EMSL-LV)

DOD--

Lt. Col. Dennis Naugle, Assistant Director of Environmental Policy with the OASD/A&L, began by presenting a DOD organization chart and explained which organizations are responsible for hazardous waste management at military installations and which organizations offer technical support. Ultimately, the installation commander is responsible for ensuring that the hazardous materials used at his installation are managed and disposed of according to the law and that any existing hazardous waste contamination problems be resolved safely, legally, and cost-effectively.

The primary DOD research and development thrusts are in the areas of soil and groundwater in-situ treatment/degradation; in-situ cleanup by way of thermal, chemical, biological, and solid reduction techniques; containment; and site assessment among others. The DOD also recognizes USTs as a major contaminant problem.

DOE--

Mr. Gerald Daly, from DOE/HQ Defense Programs, spoke briefly about DOE's organization and facilities, explaining that the DOE's Operations Offices located in Albuquerque, Nevada, Savannah River, Richland, Idaho, Oak Ridge, Chicago, and San Francisco, are responsible for formulating policy and funding requirements for DOE hazardous waste projects.

Mr. Robert Sleeman, from DOE's Oak Ridge Operations Office, presented an overview of DOE's Hazardous Waste Remedial Action Program (HAZWRAP) which includes a hazardous waste information network, DOE's hazardous waste strategy, technical development and demonstrations, and technical support. Mr. Sleeman also reviewed the DOE's present R&D programs including risk assessment, hazardous waste incineration, paramagnetic separation, and waste acid reclamation among others, and DOE's proposed demonstration sites which were presented in detail during Session 6.

Session 3: Overview and Discussion of EPA's SITE Program

The SITE Program--

Mr. Ronald Hill, from EPA/HWERL, began the session with a description of EPA's planned Superfund Innovative Technology Evaluation (SITE) program which will be instituted when the new Superfund Act is passed; Mr. Hill distributed a background paper on the SITE program to the meeting attendees. An abbreviated version of this paper is given in Appendix B. The purpose of the SITE program is to find alternatives to on-site containment or landfills and to afford private industries an opportunity to demonstrate their innovative technologies at actual hazardous waste sites such as EPA's National Priority List (NPL) sites.

A major dilemma has existed in the past where developers of new technology have not been able to implement their technologies at sites because they did not have sufficient test data to prove the technologies' effectiveness but could not obtain the required test data unless it was implemented at a site. The SITE program's Demonstration Program provides an

opportunity for developers to test their technology by paying for the implementation and maintenance of the demonstration equipment and obtaining any necessary permits. EPA will provide a site for the demonstration, will assist the developer in obtaining permits, and will conduct the evaluation of the demonstration to validate the effectiveness of the technology.

The technology to be demonstrated must meet several criteria: 1) it must be innovative and 2) it must be demonstrated at an acceptable scale -one large enough to prove its effectiveness. EPA put out an RFP for innovative hazardous waste treatment technologies and received 20 responses, eleven of which have been conditionally accepted (discussed during Session 6).

The SITE program will receive \$20 million in funding per year from Superfund and allows for ten demonstrations per year. The Superfund Act also calls for an annual report on the progress of the program and an annual solicitation for proposals for demonstrations. EPA currently has three fast-track projects in the works although they are not really SITE projects; the projects are: 1) a cooperative demonstration with Coors in Colorado, 2) in-situ stabilization of PCBs in Florida, and 3) a plasma torch project for thermal treatment of oily sludges at Love Canal.

Operation of the Demonstration Program will include:

- o issuing a RFP for technologies;
- o selecting the technologies for demonstration;
- o soliciting sites for the demonstrations (done by the EPA Regional Offices) and;
- o matching the sites with the technologies.

Following this introduction to the SITE program, Mr. Hill invited comments and questions from the attendees; a discussion ensued.

Discussion on SITE Program--

How large-scale should the demonstration be? EPA will have to assess the risk of a scale-up for each demonstration project and make a case-by-case technical decision.

Will EPA evaluate the cost-effectiveness of the demonstration? A judgment will be made by EPA as to the cost of operating the demonstration, however, at this point, no definite plans have been made to evaluate cost, only technical effectiveness.

How will EPA assist in getting permits for developers? EPA can only assist or try to expedite the permitting process; EPA cannot actually obtain permits for developers.

Is the SITE program going to ease permit restrictions? EPA is looking into easing permit restrictions for SITE demonstrations.

How will EPA assist in community relations? Community relations will require the cooperation of numerous parties including EPA-Washington DC, EPA Region offices, the developer, and State environmental agencies.

How will the nominated demonstration sites and accepted technologies be matched? NPL sites will be priority sites for demonstrations; the actual matching approach has not been determined.

What if States object to having demonstrations performed in their State? EPA said that, so far, the States contacted have been enthusiastic, however, some may offer resistance. Overall management of the SITE demonstration projects may be difficult with so many organizations involved.

What about the small entrepreneur with a good project and little funding? EPA may be willing to help small entrepreneurs with the cost of setting up the demonstration.

What about liability and responsibility? EPA is to have a written agreement with the demonstration developers concerning the responsibilities of each party.

Finally, it was suggested that EPA put out a listing of potential new projects - demonstration technologies and sites - to assist in the matching process with DOE and DOD.

Session 4: Review of 1985 Cooperative Efforts

Lt. Col. Dennis Naugle opened the session with a review of the funding available from DOD for hazardous waste remedial actions and R&D. Funding comes from the centralized Defense Environmental Remediation Account (DERA) and is allotted to the military services (Army, Navy, and Air Force). Research development and demonstration funding can come from the DERA account or through funds separately programmed by the military services. In the past, installation clean-up has taken priority over R&D. DOD has 400-800 priority sites which require remedial action and expects to expend \$5-10 billion over the next 10 years to achieve remediation. Lt. Col. Naugle stated that more funding may be allotted to R&D in the future, if they will result in the use of innovative technologies.

Army/EPA--

Mr. Clemens Meyer, from the Army Corps of Engineers, presented an overview of the Army's funding allocation for hazardous waste-related projects. Approximately \$1.7 million will be spent by the Army in 1986 on the joint demonstration projects with EPA. Of the eleven (11) projects presented by the Army, nine (9) are on-going projects presented in 1985; two (2) of the projects are newly proposed. Mr. Meyer gave a quick overview of the projects and turned the floor over to Mr. Robert Bartell for details.

Mr. Robert Bartell, from USATHAMA, reviewed the following projects:

- o In-Situ Treatment of TCE Contamination Using Microbial Degradation
- o Mobile Activated Carbon Regenerator

- o Evaluation of Bentonite Clay Containment Barriers
- o Lagoon Closure: Site Preparation and Closure After Treatment of Lagoon Contents*
- o Heavy Metal Extraction Technology for Use in Treatment of Metal-Finishing Wastes
- o Data Management System and Mapping
- o Remote Sensing Using Aerial Photography
- o Incineration Implementation Support/Test Burn at CRF Using RMA Basic F Materials*

Description of the on-going projects proposed by the DOD-Army are listed in Appendix A. Mr. Bartell also presented the Army's two newly-proposed projects: 1) Sample Holding Time Analysis Study, and 2) Multimedia Pollution Control for Metal-Finishing Operations. The Sample Holding Time Analysis Study will be done in cooperation with the Air Force, DOE-Oak Ridge, and EPA, and will involve developing and verifying sample-holding times for soil samples contaminated with TCE or energetic materials.

The Multimedia Pollution Control project will involve the development of a database containing pollution control options for metal-finishing activities. This project was started in January 1986; the database should be completed by 31 July 1986.

Air Force/EPA--

Major Thomas Walker, Chief, Environmental Engineering Branch, Air Force Engineering and Services Center, presented an update of the following twelve on-going Air Force/EPA projects:

- o Microbial Degradation - Soils and Groundwater
- o RF Thermal Decontamination
- o TCE Aerobic Degradation
- o Soil Washing
- o Aphrons for In-Situ Remediation of Subsurface Contamination
- o Catalytic Destruction of Air Stripped Organics
- o Geophysics/Geochemistry Field Investigations
- o Shale Oil JP-4 Environmental Fate and Effects
- o Facilitated Transport of Hydrophobic Compounds
- o The Destruction/Detoxification of Chlorinated Dioxins in Contaminated Soils with APEG Reagents
- o Herbicide Orange Incineration: Site Demonstration
- o Herbicide Orange Incineration

Lt. Col. Robert Lombard, from the HQ USAF/SGPA, presented two additional Air Force/EPA projects:

* Both the Lagoon Closure project and CRF project have since been cancelled. It was felt that the Lagoon Closure guidelines would be of little value because of the vast diversity of individual site characteristics. Technical and mechanical difficulties at the CRF facility caused extensive delays in the schedule, which now no longer meets the RMA requirements.

- o Health Impacts of Chemically Contaminated Groundwater
- o Toxicology Guide

The Toxicology Guide (Volume I) is considered a success and Volumes II and III have already been started.

Updates of these on-going projects are presented in Appendix A.

OASD/EPA--

Lt. Col. Dennis Naugle presented one on-going joint DOD/EPA project:

- o Uncertainties in Carcinogenic Risk Assessment

A project description is listed in Appendix A.

Navy/EPA--

Ms. Mary Lingua, from the Navy Civil Engineering Laboratory (NCEL), Port Hueneme, presented the following on-going joint Navy/EPA projects:

- o Treatment of Oil Saturated Soil
- o In-Situ Biodegradation Methodologies for Restoration of Contaminated Aquifers
- o Organo-tin Real Time Analysis
- o Evaluation of Microbial PCB Decontamination Process
- o Evaluation of Electrochemical PCB Decontamination Process

Descriptions and updates of these on-going projects are given in Appendix A. Ms. Lingua also mentioned the Navy's PCB cleanup operation taking place in Norfolk, VA, after a transformer caught on fire and contaminated aircraft parts in a warehouse storage area; the Navy expects to spend \$6-10 million to cleanup the area.

EPA/DOD--

Mr. Ron Hill presented updates on two on-going joint projects:

- o Leaking Underground Storage Tanks - Leak Detection and Testing Methods
- o Evaluation of UST Risk Assessment Models

The EPA's UST Leak Detection test apparatus is due to be completed in June 1986 and will be installed and tested during the next two years. Work has not started on the UST Risk Assessment Models project due to lack of funding.

Session 5: Discussion of Proposed New Cooperative Research Efforts

Mr. Ron Hill opened the morning session of the meeting on the second day by reiterating and clarifying several points concerning the SITE program. Mr. Hill stated that demonstration projects need not be installed at NPL sites but could be conducted anywhere that is suitable. Several of the DOD representatives stated that installation commanders may be apprehensive about demonstration projects being installed at their facilities unless a total remediation of the site is achieved. EPA stated that there could be no guarantees about the ultimate effectiveness of any of the demonstration projects. All agencies agreed that some sort of system should be worked out to match the chosen technologies with acceptable demonstration sites. Ron Hill added that the Regional EPA personnel would decide when, if a demonstration project proves effective, it would be instituted on a long-term basis.

The Session 5 discussion of newly-proposed projects from DOE, EPA, and DOD followed. Descriptions of most of the presented projects are given in Appendix A; some of the projects proposed during the meeting do not appear in Appendix A because they are not considered "cooperative" efforts, i.e., only one agency showed interest in the project.

DOE-Proposed Projects--

Mr. Gerald Daly opened the Session 5 presentations for the DOE, and stated that EPA and DOD should keep in mind who could be a project contact from their respective organizations for the DOE projects.

Mr. Dean Eyman, from DOE's Oak Ridge National Laboratory, presented the following twelve projects for which DOE has allotted funding:

- o Risk Assessment Methodology
- o Hazardous Waste Incineration
- o Nitrate Destruction Using a Fluid Bed Calciner
- o Process Microwave Heating
- o Supercritical Water Oxidation
- o Treatment/Disposal of Reactive Materials
- o Paramagnetic Separation of Waste
- o Waste Acid Detoxication and Reclamation
- o By-Product Expert System
- o Process Material Substitution
- o In-Situ Detection of Organics
- o In-Situ Monitoring of Organics

Mr. Gareth Pearson, from EPA/EMSL-LV stated that work was currently being done by EPA and DOD in in-situ detection and monitoring of organics and suggested close cooperation between all three agencies in this area.

EPA-Proposed Projects--

Mr. Joe McSorley, from EPA/AEERL-RTP, presented two of the six EPA/AEERL-proposed projects as follows:

- o On-Line Continuous Emission Monitoring of DOD Hazardous Waste Incineration
- o High Efficiency, Low NO_x Burner/Incinerator for Hazardous Waste Cofiring

Mr. Wade Ponder, also from EPA/AEERL-RTP, presented the other four EPA/AEERL projects:

- o Hazardous Emissions from Chrome Plating Operations*
- o Destruction of Plastic Media Blasting Residues by Incineration
- o Emissions Factors for Metal Finishing Operations*
- o Sampling Method for Reactive POHC from Incineration

Mr. Ron Hill presented the nine EPA/HWERL-proposed projects:

- o In-Situ Extraction of VOCs from Soils
- o Stabilization of Hazardous Waste at Superfund Sites
- o Evaluate Decontamination of Excavated Soils Using Aqueous-Based Extraction Techniques
- o Evaluation of the Effectiveness of Foams to Abate Unconfined Releases of Toxic Gases
- o Assessment of Performance of Double Liner Systems
- o Evaluation of Performance of RCRA-Design Cover System
- o Landfill Stabilization by Lime/Flyash Injection
- o Federal Workshop on Hazardous Waste Management for Federal Facilities
- o Co-Firing Hazardous Waste in U.S. Navy Boilers

Mr. Hill added that the Federal Workshop project was going to be rewritten to include a number of workshops and that the reworked write-up could be obtained from Mr. C.C. Lee, from EPA/HWERL, who is the EPA Project Coordinator.

Mr. Herb Quinn, Director of the Water and Land Division of the Office of Environmental Processes and Effects Research/EPA, presented four additional research proposals from EPA's Environmental Research Laboratories. The proposed projects are as follows:

- o In-Situ Biodegradation of Organics
- o 13 Tasks Related to Microbiodegradation of Pollutants
- o Study of In-Situ Cleanup of Estuarine Environments
- o Study of Hazardous Waste Disposal in Wetlands Environments

A fifth study will also be proposed at a later date.

Mr. Gareth Pearson, from EPA/EMSL-LV, presented the following five projects proposed by EPA's Monitoring Laboratory:

* These two projects have since been combined with the Multimedia Pollution Control for Metal-Finishing Operations project which was presented by Mr. Robert Bartell, USATHAMA.

- o External Monitoring Devices for Underground Storage Tanks
- o Integrated Monitoring Systems for DOD Hazardous Waste Site Assessment
- o Air Monitoring and Quality Assurance
- o Quality Assurance Techniques/Materials
- o Laboratory Evaluation Procedures

The UST Leak Detection project is being done jointly with the Air Force and was presented later in the session. Mr. Pearson also mentioned a sixth project involving fiber optics research at Tufts University.

DOD-Proposed Projects--

Maj. Thomas Walker presented the following two of the four Air Force proposed projects:

- o Surface-Based Biological Treatment of TCE-Contaminated Groundwater
- o External Monitoring Devices for Underground Storage Tanks

Lt. Col. Robert Lombard presented the remaining two proposed projects:

- o Hazard Assessment Rating Methodology II
- o Analysis of Techniques to Improve Exposure Assessments for Water-borne Contaminants

Mr. Robert Bartell, from USATHAMA, had presented the Army's two new proposals during Session 4 and, therefore, did not re-present but restated what the projects were:

- o Sample Holding Time Analytical Study
- o Multimedia Pollution Control for Metal-Finishing Operations

The Navy did not present details of their newly proposed projects which are listed as follows:

- o Assessment of Infrared Incineration Process for Destruction of Hazardous Waste Contaminated Soils
- o Corrosion Control and Condition Monitoring of Buried and On-Grade Storage Tanks
- o Remote Sensing of Hazardous Chemical Vapors by Infrared Spectroscopy
- o The EM⁴ Systems Approach to DOD Installation Restoration, Environmental Monitoring, Mapping, Modeling, and Management
- o Development of an Artificial Remedial Action Intelligence Data System (RAIDS) for Assessing Remedial Measures

One more project was proposed by Mr. Robert Griffing from DOE's Chicago Operations Office.

- o Plasma Arc Pyrolysis for Thermal Destruction of Toxic Waste

Session 6: EPA's SITE Program and DOD/DOE Involvement

Mr. Alfred Lindsey, from EPA's Office of Environmental Engineering and Technology, opened Session 6 with a review of the primary purpose of EPA's SITE program which is to:

- o Provide test sites and access to wastes;
- o provide credible test results of the demonstrations;
- o assist with obtaining permits, and;
- o do as many demonstrations as possible, quickly and with quality in cooperation with DOD and DOE.

Mr. Lindsey identified several steps which must be clarified in the SITE program process; the steps include identifying potential projects and deciding responsibilities.

Step 1: Identifying Potential Projects--

Mr. Lindsey stated that a process for choosing sites for demonstrations must be developed. Regional EPA Offices should nominate sites based on a standard set of criteria such as technical factors, citizen concerns, and proximity to populated areas. Demonstration technologies will be chosen by EPA based on criteria such as operating scale, innovativeness, and technical feasibility. If DOD and DOE submit a demonstration technology that meets the criteria, then EPA will consider it. EPA has not considered any foreign-developed technologies, but will do so under the same criteria as American-developed technologies.

Step 2: Responsibilities--

Mr. Lindsey stated that the responsibilities of all parties involved in the demonstration program have not been finalized. The developer is responsible for transporting, implementing, and operating the demonstration. EPA is responsible for site preparation, sampling and analysis, the evaluation plan, providing credibility to the results, managing the residuals (waste products which must be known prior to start), and generating the report of evaluation. Several unknowns remain such as who is responsible for evaluating the cost of the demonstration.

Mr. Lindsey suggested that a steering group be organized to set up procedural guidelines for the SITE program and to "iron out" the details. He also recognized that EPA needs to package the SITE program so as to make it easy for a developer to set up and operate a demonstration. A discussion on the SITE program ensued.

Discussion: SITE Program--

Discussion revolved around five subjects: Sites with multiple problems, regulations, liability, environment impact statements, and permits. DOD representatives expressed concern about demonstrations being installed at DOD sites with multiple contamination problems. A demonstration may only result in a partial cleanup but could put in appropriate pressure on the installation commander for total site cleanup. A partial cleanup may also lower the site's priority for total cleanup.

Another possible problem could occur if a demonstration installed at a non-NPL site produces a waste product which is hazardous; local regulations may prohibit transport or disposal of the waste. DOD and DOE both expressed caution towards installing unproven technologies. It was suggested that a regulatory time-table be instituted which would allow time for another cleanup attempt if a demonstration fails. EPA reiterated that they would not allow a demonstration technology to be installed if they did not think it would work.

The discussion then turned to liability. If a demonstration fails or is only partially effective, who is liable and who is responsible for finishing the cleanup operation? EPA stated that a cooperative agreement with the developer will be signed in which the responsibilities of each party will be outlined. EPA did not know if an agreement would need to be signed with DOD and DOE as a Memorandum of Agreement already exists between them.

DOD asked if an environmental impact statement (EIS) would be required for demonstration sites. EPA felt that an environmental assessment would be sufficient. DOD added that the installation commander or site owner may request an EIS.

Permitting requirements were clarified by EPA. Permits would probably not be required at NPL sites but may be required at other sites. Permits may be required for extracting wastes and also States may require permits for certain activities.

All the agencies agreed that a steering group (See Figure 6) should be organized to discuss responsibilities, permits and regulations, and how to run the program effectively and efficiently. DOE requested a more descriptive write-up of the available innovative technologies.

SITE Demonstration Technologies--

Mr. Ron Hill gave a brief description of each of the demonstration technologies listed in Figure 7. He added that eleven proposals were rejected for various reasons such as unacceptable scale, lack of lab work, lack of information, not innovative or not applicable. Attendees remarked about the lack of response to EPA's RFP. Mr. Hill felt that once the SITE program is set up and operating, more private industries will realize that there is a market and opportunity for innovative technologies and will get involved.

DOD Involvement--

Lt. Col. Dennis Naugle stated that there are currently 400-800 DOD sites which require remedial action; DOD is in the process of characterizing these sites and hopes to use some as demonstration sites. He added that 35% of the sites have compounds which are unique to DOD sites (different from EPA's Superfund sites). These compounds are primarily energetic materials such as munitions waste.

DOE Involvement--

Representatives from six DOE offices presented a total of 23 potential demonstration sites for EPA's SITE program.

FIGURE 6

Steering Group to Discuss EPA's SITE Program

EPA Representatives

Mr. Alfred Lindsey
Mr. Ronald Hill
Mr. John Koutsandreas

DOE Representatives

Mr. Robert Sleeman
Mr. Gerald Daly

DOD Representatives

| | |
|-------------|--|
| OSD - | Lt. Col. Dennis Naugle |
| Army - | Mr. Clemens Meyer Mr. Robert Bartell |
| Air Force - | Lt. Col. Steve Termaath Lt. Col. Robert Olfenbuttel or Maj. Thomas Walker |
| Navy - | Dr. Brian Higgins Ms. Mary Lingua or Mr. Bill Powers |

Figure 7

SITE Demonstration Technologies

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the U.S. Environmental Protection Agency

SITE Demonstrations

The following responders to the SITE RFP have been tentatively ranked as Conditionally Acceptable. Since the proposers have not been advised as to the results of the review and the list has not been finally approved by EPA, it should be held in confidence.

1. Advanced Combustion Technologies, Inc.
Oxygen burner for incinerator
2. Hazcon, Inc.
Solidification process
3. Shirco Infrared Systems, Inc.
Infrared incinerator
4. Terra Vac, Inc.
In-situ removal of volatile contaminants from soils
5. Waste-Tech Services, Inc.
Fluidized bed incinerator
6. Westinghouse Electric Corp.
Pyroplasma process
7. Resources Conservation Company
Extraction of hydrocarbons from contaminated sludges and spills
8. Plasma Systems, Inc.
Plasma pyrolysis thermal unit
9. Westinghouse Electric Corp.
Electric pyrolyzer
10. GH Technologies, Inc.
Circulating bed combustor
11. General Electric and International Waste Technologies
Solidification/fixation process

Source: EPA

APPENDIX A

DOD/EPA/DOE Hazardous Waste

Cooperative Efforts

Note: The asterik (*) in the Cooperative Effort project titles indicates the lead agency for that project. Also, the dollar amounts shown are included for planning purposes only and are in thousands unless otherwise indicated.

In-Situ Treatment

(1) Groundwater Treatment Technology

DOD*/EPA/DOE Hazardous Waste Cooperative Effort

Title: In-Situ Treatment of Contaminated Groundwater

Project Objective(s): Identify, evaluate, and demonstrate technologies for the in-situ treatment of contaminated groundwater.

Description:

- a. Identify applicable in-situ groundwater treatment concepts by a review of groundwater treatment technology studies performed to date and the generation of new, innovative concepts.
- b. Develop performance criteria to be used in the evaluation of identified applicable technologies. These performance criteria will include factors such as technical feasibility, decontamination effectiveness, safety, environmental effects, and cost.
- c. Apply performance criteria to identified technologies in order to select the most promising technologies for further development.
- d. Perform laboratory evaluation of selected promising technologies.
- e. Develop plan for field demonstration with emphasis to be placed upon the environmental and safety aspects of said demonstration.
- f. Field demonstration of selected in-situ groundwater treatment technology.

Accomplishments:

- a. Coordinated Army effort with EPA, 9 Apr 86.
- b. Initiated Army efforts, 30 Jun 86.

Plans:

- a. Identification of in-situ groundwater treatment concepts for further evaluation, 1 Aug 86.
- b. Development of performance criteria for the evaluation of identified treatment concepts, 1 Oct 86.
- c. Selection of most promising concepts for laboratory evaluation, 1 Apr 87.

Expected Start Date: Apr 1986.

Expected Completion Date: Sept 1989.

| | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88+</u> |
|-------------------------|--------------|--------------|---------------|
| EPA Resources Required: | | | |
| DOD Resources Required: | 95K | 0 | 0 |
| DOE Resources Required: | | | |

EPA Project Coordinator:

Ronald Lewis, EPA/HWERL, (513/569-7856)

Ron Hill, EPA/HWERL, (513/569-7861)

DOD Project Coordinator:

Janet Mahannah, USATHAMA, (301/671-2054)

Robert Bartell, USATHAMA, (301/671-2054)

DOE Project Coordinator:

H.F. Bauman, DOE-Oak Ridge, (615/574-2037)

Demonstration Project Location: Candidate Sites - Letterkenny Army Depot, PA; Anniston Army Depot, AL; Sharpe Army Depot, CA

In-Situ Treatment
(2) Microbial Degradation

DOD*/EPA/DOE Hazardous Waste Cooperative Effort

Title: Microbial Degradation - Soils and GW

Project Objective(s): The purpose of this effort is to field validate in situ methods to remediate aquifers contaminated with multiple wastes. In situ methods of aquifer restoration are largely experimental, but are potentially cheaper and more effective than traditional methods. These methods must be field validated before they can be considered proven technologies by Air Force IRP managers, especially for sites with multiple contaminants.

Description: Site E-1 at Kelly AFB TX is contaminated with chlorinated solvents, fuel components and heavy metals. In situ aerobic bioreclamation using hydrogen peroxide is being demonstrated at this site. This effort will continue treatment at Site E-1, and provide long-term monitoring of the site to assess the treatment. Plans for full-scale remediation of Site E-1 will be developed. Work prior to FY86 has been conducted by SAIC under contract to HWERL. FY86 efforts will be conducted by an Air Force contractor to be determined in August 85.

Accomplishments To Date: Laboratory studies indicated that indigenous bacteria could be enhanced with peroxide and nutrients to degrade some of the organic wastes. The pilot-scale treatment system operated from May 85 to Feb 86. Although there were some indications of biodegradation, the peroxide delivery rates were severely limited by low hydraulic conductivity. Daughter reactions between nutrients and minerals further reduced hydraulic conductivity by precipitation of calcium phosphate. This study illustrated that (1) indigenous microbes can be enhanced to degrade certain organics, (2) efficiency on in situ treatment is highly dependent on site hydraulic conductivity, and (3) in situ treatments must be carefully formulated to achieve treatment yet avoid adverse daughter reactions. The site will be monitored in the out years to assess treatment efficiency.

Expected Start Date: May 84

Expected Completion Date: Dec 88

| | <u>FY 85</u> | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88+</u> |
|-------------------------|--------------|--------------|--------------|---------------|
| EPA Resources Required: | 150K | 58K | 0 | 0 |
| DOD Resources Required: | 660K | 56K | 25K | 12K |
| DOE Resources Required: | | | | |

EPA Project Coordinator:

Steve James, US EPA/HWERL, (513/569-7877)

Ron Hill, EPA/HWERL, (513/569-7861)

DOD Project Coordinator:

Capt. Ed Heyse, HQ AFESC/RDVW, Tyndall AFB, FL 32403 (904/283-4628)

DOE Project Coordinator:

H.F. Bauman, DOE-Oak Ridge, (615/574-2037)

Demonstration Project Location: Kelly AFB TX (San Antonio)

DOD*/EPA/DOE Hazardous Waste Cooperative Effort

Title: RF Thermal Decontamination

Project Objective(s): To demonstrate the ability of radio frequency induced heating to thermally decompose and volatilize hazardous organic chemicals within the soil. Specifically, this initial study will determine the degree of decomposition and volatilization in a soil column spiked with tetrachloroethylene and subjected to a radio frequency temperature pattern rising to 400 degrees Celsius. If the results are positive, a prototype radio frequency soil heating unit could be developed and tested.

Description: Radio Frequency (RF) electromagnetic energy has been used to extract shale oil from rock formations and has potential applications for in situ thermal destruction and volatilization of organic contaminants. Surface electrodes create an electromagnetic field, inducing molecular vibration and rotation which creates a uniform soil heating. Temperatures approaching 600 degrees celsius can be sustained in a large soil volume creating conditions for thermal decomposition and volatilization. The concept of employment for RF heating would require the electrode area to be covered by a vapor barrier which would collect volatilized organics. Collected vapors would then be treated using carbon adsorption or chemical dechlorination.

This project supplements an ongoing EPA HWERL cooperative agreement with the IIT Research Institute to study the use of radio frequency heating to act as catalyst to chemical decontamination methods. This laboratory effort includes the measurements of soil dielectric properties, bench scale heating experiments with a mass balance on tetrachloroethylene and its decomposition by-products, and a preliminary design and cost estimate for a prototype unit. RF heating will also be used in conjunction with alkali metal polyethylene glycol (APEG) reagents.

Accomplishments To Date: Bench-scale testing using soils contaminated with tetrachloroethylene successfully demonstrated the concept of RF thermal decontamination. Precise analytical techniques were developed for ensuring the mass balance for volatile compounds. Pilot-testing using 2 cu yd of contaminated soil will begin in Jun 86. A decision on full-scale testing is expected in December 86.

Expected Start Date: Apr 85

Expected Completion Date: June 88

| | <u>FY 85</u> | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88+</u> |
|-------------------------|--------------|--------------|--------------|---------------|
| EPA Resources Required: | 0 | 99K | UNK | |
| DOD Resources Required: | 0 | 0 | 450K | 50K |
| DOE Resources Required: | | | | |

EPA Project Coordinator:

Charles Rogers, US EPA/HWERL (513/569-7757)

DOD Project Coordinator:

Doug Downey, HQ AFESC/RDVW, Tyndall AFB (904/283-4628), Autovon 970-4628

DOE Project Coordinator:

H.F. Bauman, DOE-Oak Ridge, (615/574-2037)

Demonstration Project Location: Not Determined.

In-Situ Treatment
(4) TCE Aerobic Degradation

DOO/EPA*/DOE Hazardous Waste Cooperative Effort

Title: TCE Aerobic Degradation (R.S. Kerr ERL)

Project Objective(s): To better characterize the biodegradation of chlorinated aliphatic compounds (such as trichloroethylene, the dichloroethylenes, vinyl chloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, and 1,1-dichloroethane) by microorganisms that aerobically metabolize gaseous aliphatic hydrocarbons. Emphasis will be placed on determining the fundamental laws that relate the extent of removal of the chlorinated organics to the quantities of gaseous hydrocarbon and oxygen consumed by the microbes to provide information required for intelligent design of groundwater reclamation activities (in situ bioreclamation or a surface based reactor) that are based on this process.

Description: Laboratory studies at the Robert S. Kerr Environmental Research Laboratory have shown that chlorinated alkanes and alkenes can be degraded by alkane-metabolizing microorganisms. The mechanism of biodegradation is fundamentally different from that carried out by the trichloroethylene-degrading organisms isolated at the Gulf Breeze ERL. Current research is examining the parameters controlling microbial oxidation of trichloroethylene in contaminated groundwater in the presence of various gaseous aliphatic hydrocarbons, utilizing a laboratory-scale prototype of a fixed-film soil bioreactor. A fundamental relationship between the extent of removal of trichloroethylene and the quantity of gaseous hydrocarbon required has been developed. This methodology will be further used to extend the relationship to the other chlorinated hydrocarbons and to determine the range of concentrations over which the relationship holds.

Expected Start Date: Oct 85
Expected Completion Date: Sept 88

| | FY 86 | FY 87 | FY 88+ |
|-------------------------|--------|--------|--------|
| EPA Resources Required: | \$100K | \$50K | \$50K |
| DOO Resources Required: | \$123K | \$100K | |
| DOE Resources Required: | | | |

EPA Project Coordinator:
Bill Dunlap/John Wilson, R.S. Kerr Environmental Research Laboratory,
(405/332-8800)

DOO Project Coordinator:
Capt. Richard Ashworth, USAF, HQ AFESC/RDVW, (904/283-4628)

DOE Project Coordinator:
H.F. Bauman, DOE-Oak Ridge, (615/574-2037)

Demonstration Project Location: Laboratory Research Only.

In-Situ Treatment
(5) Fuel Oil Microbial Degradation

DOD*/EPA Hazardous Waste Cooperative Effort

Title: Treatment of Oil-Saturated Soil

Project Objective(s): Effectiveness of the biodegradation process will be measured under controlled field conditions. If successful, the process will be applied to other sites.

Description: The oil pollution at Murkie Field of the Naval Communication Station (NCS), Thurso, Scotland was caused by diesel fuel (No. 2 diesel) lines and storage tank leakage prior to 1983. An estimated 2,000 gallons were lost. Approximately 1,000 gallons were recovered through a surface runoff and a leachate recovery trench along the downhill side of the oil-polluted area. The remaining 1,000 gallons were believed to be captured by soil that overlays the bedrock. The majority of the oil was trapped underneath and/or in the vicinity of a boiler building and an emergency power generator house. The buildings sitting on the primary oil spill area prohibited the soil from being excavated and hauled away.

The Naval Civil Engineering Laboratory (NCEL), Port Hueneme, California tested and evaluated an in-situ biodegradation system provided by Polybac Corporation of Allentown, Pennsylvania. The system consisted of an aerobic bioreactor (CTX-10 BIOX), a clarifier, a water injection system, a sprinkler system, and a leachate recovery and pumping system. The system operation began with water (fortified with beneficial microorganisms, nutrients and emulsifier) being injected into and/or sprayed onto the surface of oil-contaminated soil. Thus, the microorganisms were being seeded into oil-soaked soil to facilitate in-situ biodegradation. Some residual oil, which was not biodegraded, was in the BIOX bioreactor. Effluent from this bioreactor was again then recycled back for injection and/or spraying onto the soil surface of oil-contaminated soil.

Demonstration of the oil biodegradation system at NCS Thurso is considered successful. It may have removed as much as 80% of the oil spilled during the 105 days of operation. This technology will be demonstrated at other DOD sites with comparable environment and conditions.

Expected Start Date: 1 July 1985
Expected Completion Date: 15 October 1985

| | <u>FY 85</u> | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88+</u> |
|-------------------------|--------------|--------------|--------------|---------------|
| EPA Resources Required: | None | | | |
| DOD Resources Required: | \$97,000 | | | |

EPA Project Coordinator:

Steve James, EPA/HWERL, (513/569-7877)
Ron Hill, EPA/HWERL, (513/569-7861)

DOD Project Coordinator:

Dr. D.B. Chan, NCEL, (805/982-4116)

Demonstration Project Location: NAVCOMMSTA Thurso, Scotland, UK.

DOD*/EPA/DOE Hazardous Waste Cooperative Effort

Title: In-Situ Biodegradation Methodologies for Restoration of Contaminated Aquifers

Project Objective(s): The objectives of this study are: to demonstrate the aerobic decomposition of TCE and related compounds at a small-scale field site by promoting appropriate enzymatic activity of indigenous microorganisms; to quantify the rate of decomposition and to identify intermediate products; and to optimize the conditions under which this process occurs.

Description: Currently accepted techniques for the restoration of aquifers contaminated by TCE and other compounds within this class of chemicals primarily involve pumping the water to the surface and treatment by aeration or passage through carbon columns. These procedures have proven to be expensive and time-consuming to those affected including government, industry and military. Recent laboratory findings at the EPA Ada Laboratory indicate that TCE can be degraded in-situ more economically with environmentally acceptable degradation products by the addition of methane and an oxygen source to the subsurface. The purpose of this project is to carry out a field demonstration to determine the feasibility of using this process to remove contaminants such as TCE from groundwater. In addition, information will be gathered which will assist in the economic design and operation of future aquifer reclamation projects.

Accomplishments To Date: Analysis of the aquifer solids have found the bacteria populations to be large, generally in the range of 1×10^7 to 5×10^7 per gram of dry material. Laboratory studies are currently underway to enrich microorganisms capable of degrading TCE. Microorganisms are being cultured from samples of the aquifer solids. Enrichments of cultures grown on both methane and methanol show evidence of TCE degradation only in the methane cultures. Pure cultures have been isolated from the methanol and methane enrichments. The ability of these pure cultures to initiate the degradation of TCE is currently being investigated. Laboratory columns filled with aquifer solids are currently being used to study the microbial degradation of a variety of alkyl halides under different environmental conditions. Experiments with the columns will indicate if the microbial populations present in the aquifer are capable of degrading target contaminants. These studies will also help determine the lag time before bio-transformations begin, an important first step in determining the feasibility of biodegradation processes for groundwater restoration.

Expected Start Date: 5/85

Expected Completion Date: 4/88

| | <u>FY 85</u> | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88+</u> |
|-------------------------|--------------|--------------|--------------|---------------|
| EPA Resources Required: | 553K | 770K | 591K | |
| DOD Resources Required: | 20K | 20K | | |
| DOE Resources Required: | 20K | 20K | | |

EPA Project Coordinator:

Jack W. Keeley (R.S. Kerr Env. Res. Lab/Ada, OK); FTS:743-2210

DOD Project Coordinator:

Bill Powers, NCEL, (805/982-4173)

DOE Project Coordinator:

H.F. Bauman, DOE-Oak Ridge, (615/574-2037)

Demonstration Project Location: Naval Air Station, Moffett Field, CA.

DOD/EPA*/DOE Hazardous Waste Cooperative Effort

Title: A Soil-Bioreactor to Treat Vapors Produced by In-Situ Restoration
of Hazardous Wastes Sites

Project Objective(s): One of the more attractive new technologies for in situ treatment of hazardous wastes involves stripping volatile components from the waste by circulating air through contaminated regions in the unsaturated zone. This procedure rapidly weathers the wastes, reducing its capacity to release volatile components to groundwater or soil air. However, the procedure produces an air stream that must be treated before it can be discharged to the atmosphere (particularly in urban areas) which adds significantly to the cost. Engineers for Johnsons Wax, Inc. have designed, constructed, and evaluated a field demonstration of a soil bio-reactor to degrade vapors of petroleum hydrocarbons. The device has been evaluated in-house by R.S. Kerr ERL and may be appropriate for treating vapors produced by in situ air stripping of petroleum hydrocarbons, such as might be produced by a release from an underground storage tank. If it is appropriate, it should be very cost-effective compared to conventional treatment such as carbon adsorption or catalytic combustion.

Description: R.S. Kerr ERL is negotiating a cooperative agreement with the University of Oklahoma to define and optimize the kinetics of biodegradation of vapors in unsaturated subsurface materials. By summer of 1987 preliminary results should be available to guide a field demonstration of the approach. A proposal is in preparation to demonstrate the approach on Federally owned property at Traverse City, Michigan. However, at present no funding to support the demonstration has been identified. The approach has been discussed with staff of the Environmental Engineering Branch, U.S. Air Force Engineering and Services Center, who are considering a demonstration on a DOD facility. At present no decision has been made or commitment given by either EPA or the USAF. This would be a good opportunity for RSKERL and HWERL to cooperate with RSKERL providing technical advice and oversight on the fundamental processes and HWERL overseeing the engineering application. If the demonstration could be conducted at a site used by the USAF to evaluate the efficacy of in situ air stripping, considerable money and time could be saved.

Expected Start Date: Jun 87

Expected Completion Date: Jun 89

| | <u>FY 87</u> | <u>FY 88</u> | <u>FY 89</u> |
|-------------------------|--------------|--------------|--------------|
| DOD Resources Required: | \$200K | \$400K | \$200K |
| EPA Resources Required: | \$100K | \$100K | |

Note: If project could be done at Super Fund site, EPA contribution might be increased and DOD requirement decreased accordingly.

Proposed EPA contacts: John Wilson, RSKERL, (405/332-8800); & Clyde Dial, HWERL, (513/684-7528)

Proposed DOD contact: Maj. Tom Walker, USAF-A, AFESC, (904/283-4628)

Proposed DOE contact: H.F. Bauman, DOE-Oak Ridge, (615/574-2037)

Demonstration Project Location: Research Triangle Park, NC - Integrated Laboratory Systems

OOD*/EPA/DOE Hazardous Waste Cooperative Effort

Title: Aphrons for In-Situ Remediation of Subsurface Contamination

Project Objective(s): The purpose of this effort is to develop "aphron" technology to be used for in-situ subsurface contamination remediation. Aphrons are small, stable bubbles, having a diameter of about 25 microns. Their potential uses in In-situ remediation are: (1) transport mechanism for chemical and biological additives, (2) a rich oxygen source, and (3) a means to physically strip organic contaminants from soils.

Description: Laboratory apparatus to physically model the use of aphrons for in-situ remediation will be designed and fabricated. Apparatus will be tested to confirm aphron transport in porous media. Applications and techniques for the use of aphrons to decontaminate soils will be developed. The feasibility of these methods will be determined using contaminated soil from Air Force IRP sites. The final report will include a proposal for pilot scale field demonstration of aphron technology.

Accomplishments to Date: The contractor for this effort will be Virginia Polytechnical Institute and State University. Continuing resolution authority delayed start of contract.

Expected Start Date: October 1985

Expected Completion Date: January 1988

| | <u>FY 85</u> | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88+</u> |
|-------------------------|--------------|--------------|--------------|---------------|
| EPA Resources Required: | 0 | 31K | 25K | 0 |
| OOD Resources Required: | 0 | 69K | 75K | 0 |
| DOE Resources Required: | | | | |

EPA Project Coordinator:

Steve James, EPA/HWERL, (513/569-7877)

Ron Hill, EPA/HWERL, (513/569-7861)

OOD Project Coordinator:

Capt. Edward Heyse, USAF; AFESC/RDOW, (904/283-4628); AUTOVON 970-4628

DOE Project Coordinator:

H.F. Bauman, DOE-Oak Ridge, (615/574-2037)

Demonstration Project Location: Laboratory research only in FY 86 and 87.

In-Situ Treatment
(9) VOC Extraction from Soils

DOD/EPA* Hazardous Waste Cooperative Effort

Title: In-Situ Extraction of VOCs from Soils

Project Objective(s): To define the range of soil characteristics that in-situ VOC extraction can be used effectively.

Description: DOD has sponsored research at the field scale level in the vacuum extraction of VOCs from contaminated soils. It appears that soils contaminated with VOCs can be decontaminated in-situ by manipulating the vapor pressure of the soil system. There are several unanswered questions about the achievable chemical concentrations and the soil characteristics this technology is applicable to. This cooperative DOD/DOE/EPA study would build upon and expand on the DOD activity.

Tasks:

1. Define the site and soil characteristics needed for in-situ VOC extraction to be effective.
2. Define the operating and time requirements to achieve the lowest chemical concentrations.
3. Determine the number and percentage of superfund sites this technology can be effective.
4. Further field evaluations of existing systems.

Expected Start Date: January 1987

Expected Completion Date: December 1988

| | | | | |
|-------------------------|--------------|--------------|--------------|--------------|
| | <u>FY 87</u> | <u>FY 88</u> | <u>FY 89</u> | <u>FY 90</u> |
| EPA Resources Required: | <u>125K</u> | <u>150K</u> | <u>150K</u> | <u>150K</u> |
| DOD Resources Required: | | | | |
| DOE Resources Required: | | | | |

EPA Project Coordinator:

Paul de Percin, EPA/HWERL, (513/569-7797) (FTS/684-7797)

DOD Project Coordinator:

Dennis Wynne, USATHAMA, (301/671-2466)
Doug Downey, HQ AFESC/RDV, (904/283-2942)
Bill Powers, NCEL, (805/982-5465)

DOE Project Coordinator:

H.F. Bauman, DOE-Oak Ridge, (615/574-2037)

Demonstration Project Location: To Be Determined.

On-Site Cleanup

(1) Catalytic Destruction

DOO*/EPA Hazardous Waste Cooperative Effort

Title: Catalytic Destruction of Air Stripped VOCs

Project Objective(s): 1) To conduct fundamental studies on the catalytic destruction of VOCs representative of those being emitted from air strippers used by the USAF to treat contaminated groundwater. Such studies shall examine the role of chemical and mass transfer kinetics for selected catalysts, as well as explore catalyst selectivity and poisoning. 2) To conduct current technology assessments by evaluating off-the-shelf or state-of-the-art catalytic units vis-a-vis their ability to destroy VOCs of interest. Evaluation will include the effect of the following variables on VOC destruction efficiency: temperature, space velocity (reciprocal of residence time), humidity, VOC mixtures, and catalyst geometry and volume.

Description: The fundamental studies are being conducted via multiyear cooperative agreements with Research Triangle Institute (RTI) and the University of Akron. RTI is focusing on the chemical and mass transfer kinetics. Eventually, a predictive model applicable to a variety of VOC compound types (single and mixtures) will be developed, and verified by experimental data. The University of Akron will conduct studies on catalyst selectivity and resistance to deactivation. Emphasis will be placed on VOC mixtures and chlorinated organics. The current technology assessment is being conducted under an EPA contract to Radian Corp. Commercially available catalytic reactors are leased from vendors and tested using VOC mixtures which represent air emissions from groundwater air strippers.

Accomplishments to Date: The off-the-shelf evaluations by Radram have been completed and the final report is being reviewed. Two units were evaluated; one unit was found to be unacceptable for destroying the compounds of concern (fuel components, chlorinated solvents) at our testing conditions. Another unit was able to destroy the compounds with an efficiency of greater than 95%, but high temperatures were required (increase costs). RTI is investigating mixture effects in an attempt to develop a model allowing optimization of the catalytic process. The University of Akron has selected several catalyst supports, catalysts, and reactors and is currently testing the different systems to determine their ability to destroy chlorinated organics.

Expected Start Date (MM/YY): June 1985

Expected Completion Date (MM/YY): September 1988

| | <u>FY 85</u> | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88+</u> |
|-------------------------|--------------|--------------|--------------|---------------|
| EPA Resources Required: | \$100K | 0 | 0 | \$100K |
| DOO Resources Required: | \$200K | 90K | \$150K | \$100K |

(Note: DOO funding for FY 86 is AF only; past FY 86 is projected.)

EPA Project Coordinator:

Dr. Bruce Tichenor (915/541-2991) and (FTS/629-2991)

DOO Project Coordinator:

Capt. Richard Ashworth, USAF; AFESC/ROVW, (904/283-4633; AUTOVON 973-4628)

Demonstration Project Location: Laboratory research.

OOD*/EPA Hazardous Waste Cooperative Effort

Title: Regeneration of Activated Carbon

Project Objective(s): Determine the feasibility of regenerating explosives-laden carbon resulting from wastewater treatment processes. In addition, a study will be performed to evaluate the use of the EPA mobile carbon regenerator on this carbon.

Description:

- a. Chemical and physical characterizations of spent carbon laden with explosives will be performed in order to determine the technical and safety aspects involved in regenerating this carbon.
- b. Technical and economic analyses of alternative technologies for regeneration of activated carbon.
- c. The EPA mobile carbon regenerator will be evaluated with respect to economic, technical, and potential hazards associated with its use to regenerate activated carbon will be conducted.
- d. Pending the outcome of the above tasks, the EPA mobile regenerator will be field demonstrated at an Army facility.

Accomplishments:

- a. Coordinated Army effort with EPA, 6 Mar 86.
- b. Initiated Army effort, 1 May 86.

Plans:

- a. Performance of physical and chemical characterizations of spent activated carbon to be completed, 1 Nov 86.
- b. Complete evaluation of EPA mobile regenerator and provide recommendations for field testing, 1 Dec 86.
- c. Conduct state-of-the-art regeneration technology evaluation, 1 Dec 86.

Expected Start Date: Mar 1986

Expected Completion Date: May 1987

| | <u>FY 85</u> | <u>FY 86</u> | <u>FY 87*</u> | <u>FY 88*</u> |
|-------------------------|--------------|--------------|---------------|---------------|
| EPA Resources Required: | | 0 | 50K | Unk |
| OOD Resources Required: | 0 | 350K | 100K | Unk |

EPA Project Coordinator:

Richard Traver (201/321-6677)
Ron Hill, EPA/HWERL, (513/569-7861)

OOD Project Coordinator:

Janet Mahannah, USATHAMA, (301/671-2054)
Robert Bartell, USATHAMA, (301/671-2054)

Demonstration Project Location: Candidate Sites - Radford Army Ammunition Plant, VA; Mississippi Army Ammunition Plant; Iowa Army Ammunition Plant.

* Does not include funds for field testing.

On-Site Cleanup
(3) Aqueous-Based
Extraction Techniques

DOO/DOE/EPA* Hazardous Waste Cooperative Effort

Title: Evaluate Decontamination of Excavated Soils Using Aqueous-Based
Extraction Techniques

Project Objective(s): To evaluate the application of EPA-developed
contaminant extraction techniques to excavated soils at selected DOE waste
cleanup sites.

Description: The proposed project would be conducted in four phases:

- A. Identify candidate sites(s) having organic/inorganic contaminants
and soil types amenable to extraction with aqueous-based solvents,
and conduct preliminary laboratory feasibility testing; determine
range of decontamination possible.
- B. Based upon the results of Phase A, conduct more detailed laboratory
tests and define engineering unit processes that would be
applicable; prepare detailed laboratory tests and define
engineering unit processes that would be applicable; prepare
detailed plans for pilot/field tests.
- C. Based upon the results of Phase B, conduct pilot scale testing
under controlled conditions with limited quantities of contaminated
soils; tests may or may not be in-field.
- D. Based upon the results of Phase C, conduct 30-day field
demonstration of technology application.

Expected Start Date: 01/87

Expected Completion Date: 09/88

| | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88</u> | <u>FY 89+</u> |
|-------------------------|--------------|--------------|--------------|---------------|
| EPA Resources Required: | 0 | \$100K | \$300K | 0 |
| DOE Resources Required: | 0 | \$100K | \$300K | |

EPA Project Coordinator:

Frank Freestone (201/321-6632)

Ronald D. Hill, EPA/HWERL, (513/569-7861)

DOE Project Coordinator:

H.F. Bauman, DOE-Oak Ridge, (615/574-2037)

DOO Project Coordinator:

Doug Downey, HQ AFESC/RDV (904/283-2942)

Demonstration Project Location: Candidate Site; To be proposed.

On Site Cleanup
(4) Surface-Based Treatment
of Groundwater

EPA/DOD*/DOE Hazardous Waste Cooperative Effort

Title: Surface-Based Biological Treatment of TCE Contaminated Groundwater

Project Objective(s): To field demonstrate the effectiveness of a surface-based biological treatment system for renovating groundwater contaminated with trichloroethylene (TCE). This project is a follow-on to the basic laboratory study demonstrating the biodegradation of TCE to carbon dioxide in aerobic systems exposed to methane gas.

Description: The demonstrations will be conducted at an Air Force base on a site identified by the Installation Restoration Program (IRP). A contractor will design, construct, operate, and monitor the treatment system in cooperation with AFESC. The surface-based treatment system will consist of a non-reactive vessel packed with a coarse-sandy soil containing aerobic microorganisms capable of degrading TCE in the presence of methane. The TCE contaminated groundwater will be pumped through the vessel and coarse-sandy soil countercurrent to a mixture of natural gas and air. The system will be operated under various conditions during seasonal changes to evaluate the effects of environment on operating parameters and biological activity. The results will be used to develop treatment systems in support of Phase Four of the IRP at other Air Force installations with similar contamination.

Accomplishments to Date: New project for FY 86.

Expected Start Date: 10/86

Expected Completion Date: 03/98

| | <u>FY 85</u> | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88</u> | <u>FY 89+</u> |
|-------------------------|--------------|--------------|--------------|--------------|---------------|
| EPA Resources Required: | 0 | 0 | \$ 50K** | \$ 50K** | 0 |
| DOD Resources Required: | 0 | 0 | \$250K | \$150K | 0 |

EPA Project Coordinator:

Dr. William J. Dunlap, EPA/RSKERL (FTS/743-2414)

DOD Project Coordinator:

Capt. Richard A. Ashworth, USAF AFESC/RDVW (904/293-4628)

DOE Project Coordinator:

H.F. Bauman, DOE-Oak Ridge, (615/574-2037)

Demonstration Project Location: To be determined

** Projected

Containment
(1) Bentonite Clay Barrier

OOD*/EPA Hazardous Waste Cooperative Effort

Title: Evaluation of Bentonite Clay Containment Barriers

Project Objective(s): Evaluate the chemical and physical properties of the bentonite clay barrier installed at Rocky Mountain Arsenal to determine the effects of contaminant exposure on barrier stability.

Description:

- a. Develop study plan for evaluation of bentonite barrier performance at Rocky Mountain Arsenal. Plan will address possibility and means of sampling actual RMA barrier materials without adversely effecting barrier performance.
- b. In conjunction with employment of Corps of Engineers, developed leachate modeling methodology, perform field sampling of RMA barrier materials and/or simulate field conditions for laboratory study purposes.
- c. Perform laboratory study of RMA barrier materials (actual and/or simulated) to determine chemical and physical characteristics before and after exposure to RMA contaminants.
- d. Analyze data generated by Items b and c to determine effects of contaminants on specific bentonite properties and on barrier stability.
- e. Prepare technical report describing findings of study and offering recommendations for further study, barrier performance optimization, and additional field testing.

Milestones:

| | |
|-----------|-----------------------------------|
| 30 Jun 86 | Initiate Study |
| 30 Jul 86 | Draft Test/Evaluation Plan |
| 30 Apr 87 | Complete All Testing and Analyses |
| 30 Jun 87 | Draft Technical Report |

| | | | |
|-------------------------|--------------|--------------|---------------|
| EPA Resources Required: | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88+</u> |
| | 0 | 0 | 0 |
| OOD Resources Required: | 722K | | |

EPA Project Coordinator:

Walter Grube, EPA/HWERL, (513/569-7795)
Ron Hill, EPA/HWERL, (513/569-7361)

OOD Project Coordinator:

David Strang (303/289-2119)
Col. Wallace Quintrell, USATHAMA, (301/671-3434)

Demonstration Project Location: Rocky Mountain Arsenal, Denver, CO.

Containment
(2) Abatement of Releases
with Foams

EPA*/DOD/DOE Hazardous Waste Cooperative Effort

Title: Evaluation of the Effectiveness of Foams to Abate Unconfined Releases of Toxic Gases

Project Objective(s): Evaluate at full scale the effectiveness of fixed foam systems developed to abate chemical process plant toxic gaseous releases, including measuring percent abatement and identifying possible improvements.

Description: In an effort to prevent a repetition of the catastrophic Bhopal release, the EPA will embark on a program to upgrade foam systems that were developed earlier to mitigate releases of rocket propellant component chemicals. The intent is to develop a generic fixed foam generation system capable of coping with a large variety of hazardous and toxic gaseous releases that may be expected to occur within a chemical manufacturing, processing or using facility. The actual testing will need to be carried out at the large-scale research facility in Nevada operated by Lawrence Livermore Labs for DOE. This technology is also of direct relevance to DOD and DOE programs. Joint process reviews--technical and program--and exchanges of information will be accomplished via project coordinators identified below.

Expected Start Date: 07/87

Expected Completion Date: 12/89

| | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88</u> | <u>FY 89+</u> |
|-------------------------|--------------|--------------|--------------|---------------|
| EPA Resources Required: | 0 | \$100K | \$200K | \$200K |
| DOD Resources Required: | 0 | \$ 25K | \$200K | \$200K |
| DOE Resources Required: | 0 | \$ 25K | \$200K | \$200K |

EPA Project Coordinator:

John Brugger (201/321-6634)

Ronald D. Hill, EPA/HWERL, (513/569-7861)

DOD Project Coordinator:

Maj. Ken Den Bleyker, HQ AFESC/RDV (904/283-4234)

DOE Project Coordinator:

H.F. Bauman, DOE-Oak Ridge (615/574-2037)

Demonstration Project Location: DOE Frenchman's Flat, NV Facility

Candidate Site: NA

DOD/DOE/EPA* Hazardous Waste Cooperative Effort

Title: Evaluation of Performance of RCRA-Design Cover System

Project Objective(s): To assess the effectiveness of a landfill cover system constructed in accordance with RCRA requirements and guidance. The effectiveness is the ability of the system to prevent the passage of water through it into the underlying waste mass. The project will also determine the validity of the HELP model in predicting water passage through the cover that is to be assessed.

Description: The ability of a landfill cover, that meets RCRA requirements and guidance, in preventing the passage of water through it, has not been determined. The determination will require finding such a cover system for which detailed information is available on design, construction, and construction quality control. It is probable that such a system exists at a DOD or DOE site for which access may be obtained for the assessment. The assessment would be planned for a period long enough to determine the maximum rate of leakage. An important part of the assessment would be the development of, or assistance in the development of, a technique to locate the site of cover leakage and to determine the rate of leakage. The assessment might then use the technique as the principal method of performance assessment, through its use in occasional or continuous surveys. The assessment would be the first of several that would examine cover performance in various circumstances of design and/or site conditions.

Cover performance assessments will provide the principal means for verifying the effectiveness of pertinent containment regulations, and for determining the need for increasing or lessening the requirements.

Expected Start Date: FY 87

Expected Completion Date: FY 90

| | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88</u> | <u>FY 89+</u> |
|-------------------------|--------------|--------------|--------------|---------------|
| EPA Resources Required: | 0 | 150 | 200 | 150 |
| DOE Resources Required: | 0 | 150 | 200 | 150 |

Estimated Total Resources Required: \$1000K

EPA Project Coordinator:

Ron Hill, HWERL (513/569-7861)

DOD Project Coordinator:

Robert Bartell, USATHAMA (301/671-2054)

Doug Downey, HQ AFESC/RDV (904/283-2942)

DOE Project Coordinator:

D.W. Burton, DOE-Oak Ridge (615/574-3767)

DOD/DOE/EPA* Hazardous Waste Cooperative Effort

Title: Assessment of Performance of Double Liner Systems

Project Objective(s): To determine the long-term effectiveness of RCRA required double liner systems in containing hazardous waste and leachate, i.e., preventing the passage of liquid either in or out of the containment structure. A containment structure may be either a surface impoundment or a landfill.

Description: The long-term effectiveness of RCRA-required double liners in containing waste and leachates has not been determined. The determination will require finding one or more sites for which detailed information is available on design, construction, and construction quality control. It is probable that such a site exists at a DOD or DOE site for which access may be obtained for the assessment. The assessment shall be planned for a period long enough to determine the maximum rate of leakage through the top liner, or for a period long enough to determine that measurable leakage will not occur. A diligent attempt shall also be made to determine if the bottom liner leaks or is subject to leaks. The project may require, or make it desirable, that technology be developed to detect leakage in very small amounts, e.g., a variant of electrical resistivity techniques.

Several variants of a double liner system are possible. For example, the bottom liner may be a flexible membrane in combination with a clay layer or it may be a clay layer alone. The project would select one variant for its first task. If successful, one or more other variants will be selected for further assessment.

Expected Start Date: FY 86

Expected Completion Date: FY 90

| | FY 86 | FY 87 | FY 88 | FY 89+ |
|-----------------------------|-------|-------|-------|--------|
| EPA Resources Required: | 30 | 120 | 200 | 150 |
| DOD/DOE Resources Required: | 0 | 150** | 200** | 150** |

Estimated Total Resources Required: \$1000K

EPA Project Coordinator:

Ron Hill, HWERL (513/569-7861)

Robert Hartley, HWERL, (513/569-7838)

DOD Project Coordinator:

Bob Riggins, CERL (800/872-2375); Doug Downey, HQ AFESC/RDV (904/283-2942)

Bill Powers, NCEL (805/982-5465); Norm Francenques (601/634-3111)

DOE Project Coordinator:

D.W. Burton, DOE-Oak Ridge (615/574-3767)

** Indicates funding requested by EPA not funding committed by DOE or DOD.

DOO/DOE/EPA* Hazardous Waste Cooperative Effort

Title: Stabilization of Hazardous Waste at Superfund Sites

Project Objective(s): To conduct assessments of the effectiveness of stabilization processes under field conditions.

Description: EPA and other federal agencies have conducted studies on solidification and stabilization processes. EPA desires to conduct demonstrations of some of the more promising techniques to determine: (1) the reliability of laboratory tests to predict field performance, and (2) to determine the longer term performance of these process products under actual field weathering conditions.

Vendors will be asked to stabilize hazardous waste on-site. The field evaluation will be preceded by a laboratory evaluation. Materials stabilized in the field will then be monitored to determine their weathering characteristics and leachability. Results of field monitoring will be compared to the earlier laboratory predictions.

Tasks:

1. Determine and select waste candidates and solidification - stabilization processes of interest.
2. Conduct necessary laboratory tasks.
3. Determine scale of field implementation,
4. etc.

Expected Start Date: October 1986

Expected Completion Date: September 1989

| | <u>FY 87</u> | <u>FY 88</u> | <u>FY 89</u> | <u>FY 90</u> |
|-------------------------------|--------------|--------------|--------------|--------------|
| EPA Resources Required (\$K): | 150 | 150 | 150 | 150 |
| DOO Resources Required (\$K): | | | | |
| DOE Resources Required (\$K): | | | | |

EPA Project Coordinator:

Donald E. Sanning, EPA/HWERL, (513/569-7861) (FTS/684-7861)

DOO Project Coordinator:

Dave Palmer (202/694-3434)

Capt. Ray Peters, USAF; AFESC/RDOW, (904/293-4628)

DOE Project Coordinator:

O.W. Burton, DOE-Oak Ridge (615/574-3767)

Demonstration Project Location: Rocky Mountain Arsenal; Other DOO/DOE sites

Site Assessment
(1) Sampling Reactive POHC

EPA*/DOE Hazardous Waste Cooperative Effort

Title: Sampling Method for Reactive POHC from Incineration

Project Objective(s): To select and test a sampling method that preserves the integrity of substances sensitive to chemical reactions during sampling.

Description: Several situations exist in which difficulties have been encountered in choosing a reasonable principal organic hazardous constituent (POHC) for permitting trial burns related to DOD facilities. Some of the potential candidates such as diphenylamine have been avoided due to preliminary evidence that material collected in various parts of the sampling train may react with nitrogen oxides in the stack gas. Consideration is currently being given to conductivity trial burns at these facilities with surrogate POHC materials, but it would be more desirable to identify and test a sampling method that avoids the reaction problem in the first place.

Recommended Approach: A contract will be procured to perform the proposed research in two major portions:

FY 87 - The contractor will identify three or more compounds in addition to diphenylamine that are of concern as problem POHCs in sampling situations involving DOD and EPA. Potential new designs or modifications to existing sampling systems will be evaluated for potential for laboratory studies. One or more of these methods will be subjected to laboratory recovery studies using synthetic flue gas. A research report on the laboratory studies will be written and published as an EPA report.

FY 88 - One or more of the candidates, with successful results in the lab studies, will be selected for field trial. This trial will be conducted at a DOD facility if possible or a suitable substitute if not. A field trial research report will be written and published as an EPA report.

Expected Start Date: FY 87

Expected Completion Date:

| | <u>FY 87</u> | <u>FY 88</u> |
|-----------------------|--------------|--------------|
| EPA Funding Required: | \$150K | \$150K |

EPA Project Coordinator:

Larry D. Johnson, USEPA/AEERL, (919/541-7943)

DOE Project Coordinator:

J.C. Parker, DOE-Oak Ridge (615/576-1591)

DOD/DOE/EPA* Hazardous Waste Cooperative Effort

Title: Stability and Holding Times for Environmental Samples

Project Objective(s): The purpose of this study is to define the time frame in which environmental samples can be expected to remain stable, and to recommend storage conditions which maximize this holding time without undue expense.

Description: Currently there are not adequate guidelines based on hard scientific data for holding environmental samples, especially organic compounds in solids. The study design will accommodate as many of the high priority variables as possible. These include: Sample type, level of contamination, storage condition, and time intervals. Efforts during the first year will be primarily involved with obtaining, characterizing, developing, and spiking (if necessary) materials to be used in the study. It is intended to phase the study throughout the next two years in order to maintain an even workload. Some interim results, however, should be available during FY 87.

Expected Start Date: 01/86

Expected Completion Date: 09/88

| | FY 86 | FY 87 | FY 88+ |
|-------------------------|--------|--------|--------|
| DOE Resources Required: | 70.0K | 70.0K | 70.0K |
| DOD Resources Required: | 350.0K | 300.0K | 200.0K |
| EPA Resources Required: | 15.0K | 500.0K | 350.0K |

(In-House)

DOE Project Coordinator:

Mike Maskarinec, ORNL, (615/574-4864)

DOD Project Coordinator:

Ann Ryan, USATHAMA, (301/671-2466)

Kenneth Lang, USATHAMA, (301/671-2466)

Maj. Nils Akerlind, USAF; AFESC/RDV, (904/283-4297)

EPA Project Coordinator:

Dave Bottrell, EMSL-LV, (702/798-2142)

Llew Williams, EMSL-LV, (702/798-2138)

Demonstration Project Location: Oak Ridge National Laboratory; Superfund Contract Laboratories.

DOD*/EPA Hazardous Waste Cooperative Effort

Title: Automated Organotin/Organometal Monitoring System and QA/QC Protocols for Analysis

Project Objective(s): Develop and operationally test an automated organotin monitoring system for near real time analysis in the aquatic environment. Develop methodology for standardized QA/QC protocols for measurement of organotin and other organo-metal compounds in marine waters. Fabricate three systems for field use.

Description: An analytical method for trace measurement of organotin in seawater has been optimized using hydride reduction to form volatile tin hydrides which are concentrated in a liquid nitrogen cooled column and volatilized into a hydrogen flame quartz burner followed by detection in an atomic absorption spectrophotometer. A prototype microcomputer-based field instrument using this hydride derivatization technique is in the final stages of development. The instrument uses a combination of a unique variable temperature trap, a custom designed reaction vessel and a series of valves and pumps to automate the optimized method yielding rapid and reproducible analytical results. The method can also be used for other organo-metallics, such as ethyl-lead or methyl-mercury as well as arsenic or selenium. National Bureau of Standards is participating in the method development and intercomparison efforts.

Progress To Date:

| | |
|----------|--|
| May 1985 | Initiated DOD/EPA cooperative effort |
| Aug 1985 | Initiated request to EMSL, Las Vegas for joint effort |
| Sep 1985 | Met with EPA to discuss scientific issues, including method development |
| Oct 1985 | Successful test of prototype automated organo-tin analyzer in San Diego Bay |
| Jun 1986 | Navy/EPA/NOAA workshop on organo-tin methods and monitoring |
| Jun 1986 | Developmental test of automated system at Norfolk completed |
| Sep 1986 | Presented papers on automated analyzer and methodology at Oceans '86 Organotin Symposium |

Current Program Requirements:

- Additional funding to achieve design specs for accuracy, reliability, size and ease of use, develop design specifications for procurement, and perform operational test and evaluation.
- Participation and guidance from EPA and NBS in the development of standardized QA/QC protocols for organotin analysis.

| | | |
|---------------------------|------------------------------------|----------------|
| Expected Start Date: | Prototype Fabrication: | October 1983 |
| | Developmental Test and Evaluation: | October 1985 |
| | Operational Test and Evaluation: | March 1987 |
| Expected Completion Date: | Prototype development: | September 1985 |
| | Developmental Test and Evaluation: | September 1986 |
| | Operational Test and Evaluation: | September 1988 |

| | <u>FY 87</u> | <u>FY 88</u> | <u>FY 89</u> |
|-------------------------|--------------|--------------|--------------|
| EPA Resources Required: | None | | |
| DOD Resources Required: | \$200K | \$200K | \$175K |

EPA Project Coordinators: John Koutsandreas, OADEMQA, (202/382-5789); Steve Billets, EMSL-LV, (702/798-2232)

DOD Project Coordinators: Paul Yaroschak, COMNAVFACENGCOM, (202/325-0431) and Pete Seligman, NOSC (619/225-7697)

Demonstration Project Location: Naval Ocean Systems Center (NOSC), Code 522, San Diego, CA 92152-5008.

Cooperating Agencies: National Bureau of Standards (F.E. Brinkman)

Site Assessment

(4) Use of Bioassay Data for
Cleanup Strategies

DOD/EPA Hazardous Waste Cooperative Effort

Title: Application of Statistically Defined (Kriging) Toxicity Gradients
to the Design of Cleanup Strategies

Project Objective(s): To determine the general applicability of kriged bioassay data from field sites to help define toxicity gradients, cleanup scenarios, and post cleanup monitoring designs.

Description: The most direct method of determining toxicological impacts in the field is to conduct biological surveys. However, these surveys are both costly and time consuming. An alternative might be to collect limited field data and incorporate them into an environmental risk assessment model to predict a risk probability. The state-of-the-art of environmental risk assessment is not well developed and the output is not directly applicable to definition of the problem quantitatively. A compromise between these two procedures is to subject limited bioassay data to analysis by kriging with its concomitant generation of toxicity isopleths. The procedure has the advantage of requiring a limited amount of data input and it provides direct quantitative estimates of aquatic/terrestrial ecological toxicity impacts and/or chemical intensity throughout the impacted area.

The procedure has been applied at one site (Rocky Mountain Arsenal) with good results. There was a high degree of correlation between phytotoxicity assays and actual field data. Also, when the bioassay data were subjected to analysis by kriging and presented in isopleth form, the results corresponded positively with field truth data. If this finding holds up under closer scrutiny at other sites, it should be very useful in defining problem areas and in designing remedial or cleanup actions.

Start Date: 10/85

Expected Completion Date: 09/88

| | <u>FY 85</u> | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88</u> |
|-------------------------|--------------|--------------|--------------|--------------|
| EPA Resources Required: | 0 | \$30K | \$300K | \$200K |
| DOD Resources Required: | 0 | \$300K | \$300K | \$300K |

EPA Project Coordinator:

Spencer A. Peterson, EPA/ERL-Corvallis, OR, (503/757-4605)

William Miller, EPA/ERL-Corvallis, OR, (503/757-4776)

George Flatman, EMSL-LV, (702/798-2628)

DOD Project Coordinator:

William H. Collins, USACRDEC, (301/671-2139)

Randy Hana, Ft. Lewis, WA, (206/967-4076)

Demonstration Project Location: Aberdeen Proving Ground, MD; Ft. Lewis, WA
or alternate site selected jointly by EPA/DOD.

Site Assessment
(5) Monitoring and Modeling
Subsurface Transport

DOE*/DOD/EPA Hazardous Waste Cooperative Effort

Title: In-Situ Monitoring of Organics

Project Objective(s): To develop a method of predicting and monitoring the migration of hazardous organic compounds in the subsurface environment, based on the release and monitoring of nontoxic, highly mobile organic tracers. The goal is to field calibrate the models used to predict the movement of underground plumes of hazardous wastes by observing the movement of highly mobile tracers.

Description: A tracer sampling pipe will be developed for use with an auger or drive sampler. The correlation of tracers to various pollutants will be determined in the laboratory, using soils from the waste sites of interest. Sorption, desorption, and solid-liquid-vapor partitioning coefficients for each pollutant and tracer will be determined. For field application a performance model, the WAFE code from Los Alamos National Laboratory, will be modified to accept the tracer and pollutant parameters. Field data will be used to validate the model and the developed technique will be applied at two or three field sites. Information on the cost and application of the technique will be made available for technology transfer.

Expected Start Date: FY 1986

Expected Completion Date: FY 1989

| | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88</u> | <u>FY 89+</u> |
|-----------------------------|--------------|--------------|--------------|---------------|
| EPA/DOD Resources Required: | | \$200K** | \$200K** | \$100K** |
| DOE Resources Required: | \$140K | \$100K | \$100K | \$100K |

DOE Project Coordinator:

H.F. Bauman, DOE-Oak Ridge (615/574-2037)

EPA Project Coordinator:

Herb Quinn, EPA/ORD (202/382-5940)

John Koutsandreas, OADEMQA/ORD (202/382-5789)

DOD Project Coordinator:

Bob Riggins, CERL (800/782-2375)

Kenneth Lang, USATHAMA (301/671-2466)

Maj. Thomas Walker, HQ AFESC/ROV (904/283-4628)

Demonstration Project Location: REECo, Nevada Test Site

** These amounts do not necessarily represent committed funding from EPA and DOD.

OOD/EPA* Hazardous Waste Cooperative Effort

Title: Integrated Monitoring System for OOD Hazardous Waste Site Assessment

Project Objective(s): To develop and implement an integrated approach to the assessment of OOD hazardous waste sites, which would include sample collection, rapid, on-site chemical and biological screening methods, remote laboratory chemical and biological (toxicity) analyses, and procedures and systems for data management and interpretation. Currently available methods will be evaluated and new, rapid, methods will be developed and validated in the field and laboratory as required to provide timely, cost effective, and relevant results from site assessments. Quality Assurance (QA) guidelines will be developed and a site assessment manual will be prepared.

Description: Multi-disciplinary EPA field teams will visit OOD hazardous waste sites and, in cooperation with OOD personnel, will select and/or develop, evaluate, and validate appropriate sampling and screening methods. Rapid chemical and biological (toxicity) screening tests will be conducted on-site. Where necessary, samples will be shipped to the laboratory for analysis. Laboratory tests for further chemical and biological screening and analyses will be selected and/or developed, evaluated, and validated. A data management and evaluation system for hazardous waste samples will be developed and refined. A site-assessment guidance document which includes detailed QA guidelines will be prepared, field validated, and finalized.

Expected Start Date: October 1986

Expected Completion Date: September 1991

| | <u>FY 87</u> | <u>FY 88</u> | <u>FY 89</u> | <u>FY 90+</u> |
|-------------------------|--------------|--------------|--------------|---------------|
| EPA Resources Required: | \$500K | \$500K | \$500K | 730 |
| OOD Resources Required: | \$500K | \$500K | \$500K | 780 |

EPA Project Coordinator:

Cornelius Weber, EPA/EMSL-Cin, (513/684-7301)

Jim Lichtenburg, EPA/EMSL-Cin, (513/684-7301)

OOD Project Coordinator:

Lt. Col. Robert Lombard, HQ USAF/SGPA (202/697-1736)

DOE Project Coordinator:

Mr. Bob Strickler, DOE-HQ, (FTS/252-4160)

O.W. Burton, DOE-Oak Ridge (615/574-3767)

Demonstration Project Location:

EPA*/DOD/DOE Hazardous Waste Cooperative Effort

Title: Air Monitoring and Quality Assurance Support

Project Objective(s): Provide monitoring and quality assurance advice and support for environmental measurement activities. Establish a network for exchange of QC materials and information and work toward standardization of QA/QC procedures between the Agencies.

Descriptions: The Office of Acid Deposition, Environmental Monitoring and Quality Assurance (QAEMQA) has unique expertise in monitoring for a wide variety of compounds in various media and in developing and providing quality assurance materials that support these monitoring operations. Much of this expertise has been used in an informal manner by the DOD. The intent of this project would be to formalize these support activities and would center on analytical calibration standards, QC materials and on standardization of laboratory QA/QC procedures. Additional meetings will have to be held to develop detailed resource requirements and identify the specific project elements.

Expected Start Date: 10/86

Expected Completion Date: Continuing

| | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88</u> |
|-------------------------|--------------|--------------|--------------|
| DOE Resources Required: | | | |
| EPA Resources Required: | 1.5M | 1.5M | 1.5M |
| DOD Resources Required: | | | |

EPA Project Coordinator:

Gareth Pearson, EPA/EMSL-LV, (702/798-2383)
John Winter, EPA/EMSL-Cin, (513/684-7325)
Jack Puzak, EMSL-RTP, (919/541-2106)

DOD Project Coordinator:

Dennis Wynne, USATHAMA, (301/671-2466)
Maj. Nils Akerlind, USAF; AFESC/RDVM, (904/283-4297)

DOE Project Coordinator:

T.E. Horne, DOE-Oak Ridge (615/576-1949)

Demonstration Project Location: EMSL-LV, EMSL-CIN, EMSL-RTP

DOD/DOE/EPA* Hazardous Waste Cooperative Effort

Title: On-Line Continuous Emission Monitoring of Hazardous Waste
Incinerators

Project Objective(s): (1) to investigate the feasibility of using a mass spectrometer (MS) for monitoring the organic emissions of an incinerator on a real-time basis; (2) to demonstrate the use of the MS as a continuous monitor while using the Hazardous Air Pollutants Mobile Laboratory (HAPML) to provide continuous emission monitor (CEM) data and process parameter information for characterization of two DOD incinerators; (3) to evaluate other existing optical analytical techniques for potential use as CEMs for incineration research; (4) to modify those optical instrument(s) that are found to have potential for use as CEMs after laboratory testing and field test the instruments at a DOD facility.

Project Description: The first problem that must be addressed is that of sample integrity. In order to obtain organic data on a real-time basis, an intact sample must be delivered from the stack to the analytical instrument. Available sample lines materials and sample delivery systems must be evaluated for this use. An on-line concentration system will be developed for use when the concentration of the sample of interest is below the detection limit of the instrument. After the sample delivery system is developed, it will be installed on the HAPML along with the MS. The HAPML, developed by EPA, will be transported to a DOD incinerator for a field-test of the MS and sample delivery system. The HAPML, equipped with O₂, CO₂, CO, NO_x, SO₂, and HCl CEMs as well as process parameter monitors, will provide an on-site facility for the MS work and additional information for characterization of the incinerator. The third portion of the project will concentrate on evaluating other existing analytical techniques for potential use as CEMs. Possible instruments include the Fourier Transform Infrared Spectrometer and the Tunable Diode Laser. The final phase of the project will field test the techniques that were found to be promising in the laboratory tests. The HAPML and the sampling system developed earlier will again be used for this purpose at a DOD incinerator.

| | | | | |
|-----------------------------|--------------------|-----------------|-----------------|-----------------|
| EPA Resources Required: | FY 87 \$100K | FY 88 \$100K | FY 89 \$100K | FY 90 \$100K |
| DOD/DOE Resources Required: | (To Be Determined) | | | |

EPA Project Coordinator:
Sharon L. Nolan, AEERL, (919/541-7607)

DOD Project Coordinator:
Mr. S.B. Joshi, HQ AFESC/RDV, (904/283-4234)

DOE Project Coordinator:
J.C. Parker, DOE-Oak Ridge, (615/516-0715)

DOD*/EPA Hazardous Waste Cooperative Effort

Title: Health Impacts of Chemically Contaminated Groundwater
(An Examination of Complex Mixtures)

Project Objective(s): (1) To determine the mechanisms of action on whole animals after exposure to mixtures of two or more hazardous compounds and (2) to develop a model of the physiological response of animals exposed to complex mixtures.

Description: The U.S. Environmental Protection Agency and the U.S. Air Force will jointly fund a three-year study of health effects associated with exposure of Volatile Chlorinated Hydrocarbons suspected of contaminating ground water. The Medical College of Virginia will conduct in-vitro and in-vivo studies to assess the toxicity of mixtures of carbon tetrachloride, chloroform, ethylene dichloride, 1,1 Dichloroethane, and trichloroethylene. The University of Michigan will develop models to predict the toxicity (oral vs. inhalation) of mixtures of 1,1 Dichloroethylene and Vinylidene Chloride and 1,1 Dichloroethane and 1,2 Dichloroethylene. The University of Arizona will determine the possible interactive hepato-toxicity that may result from simultaneous or sequential exposure of animals (or hepatic tissue or cells) to a number of halogenated aliphatic and aromatic hydrocarbons.

Expected Start Date: July 1985

Expected Completion Date: July 1988

| | FY 85 | FY 86 | FY 87 | FY 88+ |
|-------------------------|-------|-------|-------|--------|
| EPA Resources Required: | 650K | 250K | 200+K | (UNK) |
| DOD Resources Required: | 450K | 200K | 200K | (UNK) |

EPA Project Coordinator:

Dr. Lyman Condie (Health Effects Research Lab, Cincinnati)

Dr. Michael A. Berry (Environmental Criteria & Assessment Office, RTP, NC)

DOD Project Coordinator:

Lt. Col. Robert Lombard, USAF SGO, (202/767-1736)

Capt. Michael Shelley (Wright Patterson AFB, Ohio)-Aerospace Medical Research Laboratory, (513/255-5740)

Demonstration Project Location: Medical College of VA
University of Michigan
University of Arizona

DOD*/EPA Hazardous Waste Cooperative Effort

Title: Uncertainties in Carcinogenic Risk Assessment

Project Objective(s): To identify and quantify uncertainties in carcinogenic risk assessment.

Description: The decision of when and to what degree to cleanup hazardous waste sites frequently depends on the long term health implications from a carcinogenic risk assessment. This ongoing study combines all human and animal data for 40 chemical compounds identified by DOD from groundwater contamination studies to compute the effect of alternative approaches on the final risk assessment.

Phase I: Data collection and risk estimation.

- o Over 800 data sets have been analyzed and entered into a computerized data matrix designed to test various assumptions.
- o A linear multistage model is used for human and animal data to evaluate the effect of assumptions dealing with species sensitivity, equivalent dose, tumor selection, pharmacokinetics and metabolism, and length of exposures.

Phase II: Evaluate risk estimates with the best correlation between human and animal data. Show the range of risk estimates based on different assumptions and suggest guidelines.

Expected Start Date: September 1984

Expected Completion Date: September 1986

| | <u>FY 85</u> | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88+</u> |
|-------------------------|--------------|--------------|--------------|---------------|
| EPA Resources Required: | \$ 75K | 0 | | |
| DOD Resources Required: | \$250K | 0 | | |

EPA Project Coordinator:

Dr. Chou Chen (202/382-5719)

DOD Project Coordinator:

Lt. Col. Dennis Naugle, OASD, (202/695-7820)

Capt. Michael Shelley, Wright-Patterson AFB, Aerospace Medical Research Lab, (513/255-5740)

Demonstration Project Location: Ruston, Louisiana (K.S. Crump and Co., Inc.)

DOE*/DOD/EPA Hazardous Waste Cooperative Effort

Title: Risk Assessment Methodology

Project Objective(s): To develop and demonstrate an improved risk assessment methodology for evaluating hazardous waste facilities and handling practices. The methodology is being developed as a tool for use in assigning priorities for action in upgrading waste facilities and/or handling practices at DOE installations.

Description: The methodology will be based on evaluation of the following three factors:

1. Chemical toxicity and/or radiological hazard of the waste.
2. Probability of release.
3. Transport in the environment.

The analysis will determine the appropriate weight to assign to each of the factors. The approach will include a survey of the available techniques in order to select and/or adapt those suitable for the methodology. Where a large number of toxic substances are present at a site, it may be advantageous to classify the wastes into classes in which the constituents react and move similarly, and to select those constituents from each class for analysis that are found to dominate the hazard. The developed methodology will be tested on several cases to prove and/or modify the methodology as necessary.

Expected Start Date: FY 1986

Expected Completion Date: FY 1989

| | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88</u> | <u>FY 89+</u> |
|-----------------------------|--------------|--------------|--------------|---------------|
| EPA/DOD Resources Required: | | \$70K** | \$100K** | \$75K** |
| DOE Resources Required: | \$140K | \$70K | \$100K | \$75K |

DOE Project Coordinator:

D.W. Burton, DOE-Oak Ridge, (615/574-3767)

EPA Project Coordinator:

Herbert Quinn, EPA/CRD, (202/382-5940)

DOD Project Coordinator:

Dr. David Rosenblatt, USAMBCRL, (301/663-2014)

Demonstration Project Location: Sandia National Laboratory

** Indicates funding requested by DOE, not funding committed by DOD or EPA.

Site Assessment
(12) Exposure Assessments

000*/DOE Hazardous Waste Cooperative Effort

Title: Analysis of Techniques to Improve Exposure Assessments for Waterborne Contaminants

Project Objective(s): Establish criteria for assessing hazards from domestic water contaminants considering all known routes of exposure.

Description: Project will couple mathematical models for indoor air pollution and physiologically based toxic-kinetics to define absorption, distribution, metabolism, and excretion of contaminants in the body resulting from domestic exposure to waterborne contaminants by oral intake, skin absorption and inhalation.

Expected Start Date: 08/86

Expected Completion Date: 08/87

| | <u>FY 85</u> | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88</u> |
|-------------------------|--------------|--------------|--------------|--------------|
| DOE Resources Required: | 0 | - | - | - |
| DOO Resources Required: | - | \$150K | Unk | Unk |

DOE Project Coordinator:

Dr. David Layton, LLNL, (415/422-8361)
D.W. Burton, ORNL (615/574-3767)

DOO Project Coordinator:

Lt. Col. Robert A. Lombard, USAF SGO (202/767-1736)
Capt. Michael Shelley, AAMRL (513/255-2704)

Demonstration Project Location:

DOD/EPA* Hazardous Waste Cooperative Effort

Title: Environmental Risk Assessment for DOD Impacted Estuaries

Project Objective(s): To develop, test, and implement a modeling-based environmental risk assessment procedure for DOD impacted estuaries. Specific objectives include: (1) investigate existing fate and transport models (e.g., TOXIWASP, MINTEQ) for applicability to DOD-related pollutants including inorganics (e.g., metal-based paints) and organics (e.g., cleaning solvents, biocides); (2) develop needed advances in hydrodynamic transport including stratified flow and cohesive sediment movement; (3) develop efficiently linked water quality-hydrodynamic computer codes; and (4) test emerging technologies in environmental risk assessment. Finally, the developed procedures will be demonstrated on an existing site to illustrate capability to manage releases and effects, remediate existing problems, and anticipate future hazardous conditions.

Project Description: EPA and DOD technical experts will evaluate existing sites (e.g., shipyards) where known or emerging problems exist and/or can be sufficiently measured. Models will be selected, modified, and applied to the selected site(s). Where appropriate, laboratory studies on specific pollutants will be conducted to elucidate fate process data and effects. The developed models will be calibrated and validated on existing or study-generated data. Sensitivity analyses and alternative management (or clean-up) scenarios will be investigated. Finally, technology transfer of successful procedures will be targeted to promote general use.

Expected Start Date: Oct 86

Expected Completion Date: Sep 91

| | FY 87 | FY 88 | FY 89 | FY 90 |
|-------------------------|--------|--------|--------|--------|
| DOD Resources Required: | \$500K | \$500K | \$500K | \$500K |
| EPA Resources Required: | \$500K | \$500K | \$500K | \$500K |

EPA Project Coordinator:

Robert Ambrose, EPA/ERL-Athens, (404/546-3546)

Steve McCutcheon, EPA/ERL-Athens, (404/546-3581)

DOD Project Coordinator:

Mr. R.K. Johnston, MESO (NOSC), (619/225-7797)

Mr. Carl Adema, OTRL (Navy), (FTS/980-3831)

Mr. Lee Butler, Waterways Experiment Station (Army), (601/636-2505)

Mr. Mark Dortch, Waterways Experiment Station (Army), (601/636-3517)

Demonstration Project Location: TBD

Site Assessment
(14) Monitoring and Detection

DOE*/DOO/EPA Hazardous Waste Cooperative Effort

Title: In-Situ Detection of Organics

Project Objective(s): To develop a remote fiber spectroscopy system for detection and monitoring of selected hazardous organic compounds in the environment of storage or disposal sites. The goal is to monitor multiple in-situ locations for selected hazardous organic compounds with a single remote instrument connected to fiber optrodes.

Description: A prototype portable fiber fluorimeter and a trichloroethylene (TCE) sensitive fiber optic sensor will be designed, constructed, and laboratory tested. A field site will be chosen for in-situ validation and field testing.

Optrodes will be developed for other chlorinated organics and for hydrocarbons. Further field testing will extend the applications for the system and provide cost data. As the system is proven, the technology will be made available to the various DOE installations and others that have need for in-situ monitoring.

Expected Start Date: FY 1986

Expected Completion Date: FY 1989

| | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88</u> | <u>FY 89+</u> |
|-----------------------------|--------------|--------------|--------------|---------------|
| EPA/DOO Resources Required: | | \$250K** | \$250K** | \$250K** |
| DOE Resources Required: | \$200K | \$150K | \$150K | \$150K |

DOE Project Coordinator:

H.F. Bauman, DOE-Oak Ridge (615/574-2037)

EPA Project Coordinator:

John Koutsandreas, OAD/MQA/ORD/EPA (202/382-5789)

Larry Eccles, EMSL-LV, (702/798-2385)

DOO Project Coordinator:

Kenneth Lang, USATHAMA (301/671-2466)

Maj. Thomas Walker, HQ AFESC/ROV (904/283-4629)

Dr. Steve Lieberman, Navy

Mr. Robert M. Roberts, NCEL, (805/982-4193)

Demonstration Project Location: Lawrence Livermore National Laboratory

** These amounts do not necessarily represent committed funding from EPA and DOE.

000*/EPA Hazardous Waste Cooperative Effort

Title: Remote Sensing Using Aerial Photography

Project Objective(s): Acquisition and interpretation of overhead imagery in support of records search and environmental surveys.

Description: Visual analysis of historical black and white and current color or color infrared aerial photography to locate suspected areas of past use, storage, treatment and disposal of toxic and hazardous materials has proven extremely effective in the Army's Installation Restoration Program. An interagency agreement between EPA's field office, the Environmental Photographic Interpretation Center (EPIC) exists which allows the Army to tap into existing EPA expertise in the field of environmental imagery analysis, specifically in the analysis of active and abandoned hazardous waste sites.

| <u>FY</u> | <u>1980</u> | <u>1981</u> | <u>1982</u> | <u>1983</u> | <u>1984</u> | <u>1985</u> | <u>1986</u> | <u>1987</u> |
|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| (\$000) | 15 | 145 | 180 | 140 | 107.5 | 283.5 | 84.5 | 30 |
| Sites | 15 | 28 | 44 | 30 | 10 | 34 | 12 | Unk |

Expected Start Date: Already underway
Expected Completion Date: October 1987

FY 85 FY 86 FY 87 FY 88+

EPA Resources Required:
000 Resources Required: 300K

EPA Project Coordinator:
Frank Wotte, EPA/EPIC, (703/557-3110)

000 Project Coordinator:
Dennis J. Wynne, USATHAMA, (301/671-2466)
Conrad Swann, USATHAMA, (301/671-2270)

Demonstration Project Location: Multiple sites.

Site Assessment
(16) Geophysics Investigations

000*/EPA Hazardous Waste Cooperative Effort

Title: Geophysics/Geochemistry Field Investigations

Project Objective(s): To investigate use of remote sensing and nonintrusive sampling to delineate contamination sites as well as to define contaminant plumes to reduce IRP field expenses. By identifying abnormal zones prior to or in conjunction with exploratory drilling, these expensive sampling operations can be targeted to maximize data capture. The use of electromagnetic and seismic geophysics and soil organic vapor (SOV) measurements to define hydrogeologic features and delineate organic contaminants will be investigated.

Description: A methodology study for several types of newly developed SOV measurement techniques to thoroughly define how variability can be introduced into these measurements. Field validation studies of geophysical and SOV measurement techniques at Air Force IRP sites will determine the effectiveness of remote sensing methods and define operational limits for various field conditions. A handbook on how to successfully use remote sensing methods in subsurface contamination investigations will be produced as a result of these efforts.

Accomplishments to Date: Two field studies were completed in FY 85. These studies tested geophysical and SOV methods at sites contaminated with organic chemicals at Phelps-Collins Air National Guard Base, MI, and at Holloman AFB, NM. The results of these studies, and plans for FY 86, were briefed to Air Force and other 000 personnel in January 1986. Current effort is to incorporate the various remote sensing techniques into a comprehensive strategy for investigating sites suspected of having subsurface organic contamination. This strategy will be tested at two Air Force sites in FY 86/87: Tinker AFB and Robins AFB.

Expected Start Date: November 1984

Expected Completion Date: January 1987

| | <u>FY 85</u> | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88+</u> |
|-------------------------|--------------|--------------|--------------|---------------|
| EPA Resources Required: | \$100K | 0 | 0 | 0 |
| 000 Resources Required: | \$200K | \$200K | 0 | 0 |

EPA Project Coordinator:

Ann Pitchford, EPA/EMSL-LV, (702/798-2366)

000 Project Coordinator:

Capt. Edward Heyse, USAF; AFESC/ROVW, (904/293-4629)

Demonstration Project Location: FY 85 - Holloman AFB, NM; Phelps-Collins ANG Base, MI, FY 86 - Robins AFB, GA; Tinker AFB.

DDO*/EPA Hazardous Waste Cooperative Effort

Title: Remote Sensing Using Aerial Photography

Project Objective(s): Acquisition and interpretation of overhead imagery in support of records search and environmental surveys.

Description: Visual analysis of historical black and white and current color or color infrared aerial photography to locate suspected areas of past use, storage, treatment and disposal of toxic and hazardous materials has proven extremely effective in the Army's Installation Restoration Program. An interagency agreement between EPA's field office, the Environmental Photographic Interpretation Center (EPIC) exists which allows the Army to tap into existing EPA expertise in the field of environmental imagery analysis, specifically in the analysis of active and abandoned hazardous waste sites.

| <u>FY</u> | <u>1980</u> | <u>1981</u> | <u>1982</u> | <u>1983</u> | <u>1984</u> | <u>1985</u> | <u>1986</u> | <u>1987</u> |
|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| (\$000) | 15 | 145 | 180 | 140 | 107.5 | 283.5 | 84.5 | 30 |
| Sites | 15 | 28 | 44 | 30 | 10 | 34 | 12 | Unk |

Expected Start Date: Already underway
Expected Completion Date: October 1987

FY 85 FY 86 FY 87 FY 88+

EPA Resources Required:
DDO Resources Required: 300K

EPA Project Coordinator:
Frank Wolle, EPA/EPIC, (703/557-3110)

DDO Project Coordinator:
Dennis J. Wynne, USATHAMA, (301/671-2466)
Conrad Swann, USATHAMA, (301/671-2270)

Demonstration Project Location: Multiple sites.

Site Assessment
(16) Geophysics Investigations

DOD*/EPA Hazardous Waste Cooperative Effort

Title: Geophysics/Geochemistry Field Investigations

Project Objective(s): To investigate use of remote sensing and nonintrusive sampling to delineate contamination sites as well as to define contaminant plumes to reduce IRP field expenses. By identifying abnormal zones prior to or in conjunction with exploratory drilling, these expensive sampling operations can be targeted to maximize data capture. The use of electromagnetic and seismic geophysics and soil organic vapor (SOV) measurements to define hydrogeologic features and delineate organic contaminants will be investigated.

Description: A methodology study for several types of newly developed SOV measurement techniques to thoroughly define how variability can be introduced into these measurements. Field validation studies of geophysical and SOV measurement techniques at Air Force IRP sites will determine the effectiveness of remote sensing methods and define operational limits for various field conditions. A handbook on how to successfully use remote sensing methods in subsurface contamination investigations will be produced as a result of these efforts.

Accomplishments to Date: Two field studies were completed in FY 85. These studies tested geophysical and SOV methods at sites contaminated with organic chemicals at Phelps-Collins Air National Guard Base, MI, and at Holloman AFB, NM. The results of these studies, and plans for FY 86, were briefed to Air Force and other DOD personnel in January 1986. Current effort is to incorporate the various remote sensing techniques into a comprehensive strategy for investigating sites suspected of having subsurface organic contamination. This strategy will be tested at two Air Force sites in FY 86/87: Tinker AFB and Robins AFB.

Expected Start Date: November 1984

Expected Completion Date: January 1987

| | <u>FY 85</u> | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88+</u> |
|-------------------------|--------------|--------------|--------------|---------------|
| EPA Resources Required: | \$100K | 0 | 0 | 0 |
| DOD Resources Required: | \$200K | \$200K | 0 | 0 |

EPA Project Coordinator:

Ann Pitchford, EPA/EMSL-LV, (702/798-2366)

DOD Project Coordinator:

Capt. Edward Heyse, USAF; AFESC/ROVW, (904/283-4629)

Demonstration Project Location: FY 85 - Holloman AFB, NM; Phelps-Collins ANG Base, MI, FY 86 - Robins AFB, GA; Tinker AFB.

DOD*/EPA Hazardous Waste Cooperative Effort

Title: Facilitated Transport of Hydrophobic Compounds

Project Objective(s): To determine the factors affecting the enhanced transport of chemical substances normally not transported or slowly transported through soils and groundwater. Research will be conducted identifying the factors facilitating contaminant transport along with characterizing the chemical, physical, and biological processes affecting the enhanced transport.

Description: The proposed effort will focus on studying the possible enhanced transport of organic compounds produced by their interaction with various microparticles found in groundwater. First, organic carbon sorbents (microparticles) will be collected from natural and contaminated groundwater at various sites throughout the U.S. (including several Air Force bases). The material will be characterized as to organic content, particle size distribution, and surface charge density. Then the sorption constants for various organic chemicals (e.g., cleaning solvents, fuel components) to the microparticles will be experimentally determined. Next the mobility of the organic compound/microparticle particulate through porous media will be investigated. Finally, a transport model will be developed describing the chemical transport mechanism under changing environmental conditions, i.e., pH, ionic strength, and redox potential. The model will be verified using laboratory columns.

Accomplishments To Date: Field samples from Otis ANG have been collected and microparticles containing primarily ferrous iron and phosphate have been isolated. The sorption constants for various organic chemicals will be determined to evaluate the ability of the iron and phosphate microparticles to transport the organic chemicals in subsurface systems. The P.I. is also developing improved procedures for sampling and analysis of subsurface colloids (microparticles).

Start Date: Aug 85

Expected Completion Date: Jan 88

| | FY 85 | FY 86 | FY 87 | FY 88+ |
|-------------------------|--------|-------|--------|--------|
| EPA Resources Required: | \$173K | \$30K | 0 | 0 |
| DOD Resources Required: | 0 | \$92K | \$100K | 0 |

EPA Project Coordinator:
Dr. Mary Piwoni, U.S. EPA/RSKERL, (405/332-8800)

DOD Project Coordinator:
Capt. Richard Ashworth (USAF)HQ AFESC/ROVW, (904/293-4629 AUTOVON 970-4629)

Demonstration Project Location: Laboratory Research Only.

DDO/EPA* Hazardous Waste Cooperative Effort

Title: Transport and Fate of Organics from Aircraft Paint Stripping
Wastewater in the Subsurface Environment

Project Objective(s): The object of this work is twofold: (1) to accelerate and enhance EPA research pertaining to the behavior of organic chemicals in subsurface environments, and; (2) to provide the U.S. Navy with information regarding the treatment and disposal requirements of their aircraft paint stripping wastes.

Project Description: The behavior of selected organic solvents in saturated geological materials characteristic of aquifer systems will be evaluated. Both static and dynamic laboratory experiments will be used to ascertain the treatability and movement of selected chemical constituents of the waste. Simulated aquifers (microcosms) constructed from authentic uncontaminated aquifer material will be employed to study the transport and fate of these pollutants in groundwater environments. Organic compounds used in these studies will include, but not be limited to the following: Phenol, 1,1,1-trichloroethane, toluene, benzene, methylene chloride, naphthalene, and bis(2-ethyl hexyl) phthalate.

Expected Start Date: Jul 86

Expected Completion Date: Jun 97

| | <u>FY 85</u> | <u>FY 86</u> | <u>FY 97</u> | <u>FY 88+</u> |
|-------------------------|--------------|--------------|--------------|---------------|
| DDO Resources Required: | | \$150K | | |
| EPA Resources Required: | | 0 | | |

EPA Project Coordinator:

Marion R. Scalf, R.S. Kerr ERL/Ada, OK, (FTS/743-2408)

DDO Project Coordinator:

A. Law, NCEL, Port Hueneme, CA, (805/982-4116)

Demonstration Project Location: Laboratory research only.

Site Assessment
(19) Data Management & Mapping

DOD*/EPA Hazardous Waste Cooperative Effort

Title: Data Management System and Mapping

Project Objective(s): Integrate EPA/ORD ARC/INFO Software System with USATHAMA IRDMS (Installation Restoration Data Management System).

Description: EPA currently maintains geographic, geotechnical and chemical analysis data on a VAX 11 computer using ARC/INFO data base system. The system is located at the ORD Lab at the University of Nevada, Las Vegas. They are developing the system to be able to graphically depict the various types of data.

The US Army Toxic and Hazardous Materials Agency currently has map (geographic), geotechnical and chemical analysis data on a UNIVAC 110C computer using System 2000 data base management system. Map location, geotechnical parameters and chemical analysis data are graphically depicted using Surface Display Library graphics software, with output displayable on Tektronix graphics terminals or CalComp plotter.

The cooperative effort will involve examining the efficacy of integrating the two data systems. Once efficacy has been determined, costs and benefits of the implementation will be determined. Finally, should implementation be indicated, responsibilities, schedules, and funding will be determined.

FY 86 Milestones:

| | |
|-----------|---|
| 11 APR 86 | Coordination Meeting at Edgewood to present IRDMS capabilities. discuss funding |
| 30 JUN 86 | Define areas of mutual interest: Assign areas of responsibilities, Milestones |
| 15 AUG 86 | In-Progress Review |
| 30 SEP 86 | Task Review |

| | <u>FY 85</u> | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88+</u> |
|-------------------------|---------------|--------------|--------------|---------------|
| EPA Resources Required: | 1.5K (travel) | 25K | 50K | T30 |
| DOD Resources Required: | 1.5K (travel) | | | |

EPA Project Coordinator:

John Koutsandreas, OADENQA, (202/382-5789)

Bob Landers, EMSL-LV, (FTS 545-2260)

DOD Project Coordinator:

Lloyd Holly, USATHAMA, (301/671-2054)

Ronald Roberts, USATHAMA, (301/671-2054)

Demonstration Project Location: Edgewood Area, Aberdeen Proving Ground/ORD Lab, Las Vegas, NV

Site Assessment
(20) Toxicology Guide

00D*/EPA Hazardous Waste Cooperative Effort

Title: Toxicology Guide - Toxicological Assessments of Selected (35 or more)
Contaminants Found in Groundwater

Project Objective(s): To provide basic toxicology information on groundwater contaminants for Air Force Bioenvironmental Engineers.

Description: The Surgeon General of the U.S. Air Force has directed that a toxicology guide be prepared for Bioenvironmental Engineers. The guide will be distributed in loose leaf form and contain toxicological information on substances that might possibly contaminate groundwater. Information for approximately 35 substances will be issued the first year of the effort. It is not intended that the toxicological information contained in the guide be published in the open literature or used for environmental regulatory decisions. The contractor (A.C. Little and Associates) will prepare the guide based upon literature reviews. EPA will assist in this effort through review and comment on the guide. Follow-on volumes will add 45 or more substances, including commonly found mixtures (e.g., oils, hydraulic fluids, etc.). Subsequent efforts will also update toxicology and regulatory data in the first volume.

Expected Start Date: October 1984

Expected Completion Date: March 1987 (Vol. II), May 1987 (Vol. III)

| <u>FY 85</u> | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88+</u> |
|--------------|--------------|--------------|---------------|
|--------------|--------------|--------------|---------------|

| | | | | |
|-------------------------|--------------------------------|--------|--------|---------------|
| EPA Resources Required: | (Manhours required for review) | | | |
| 00D Resources Required: | \$450K | \$320K | \$250K | \$100-400K/Yr |

EPA Project Coordinator:

Dr. Michael A. Berry, Environmental Criteria & Assessment Office, RTP, NC

00D Project Coordinator:

Lt. Col. Robert Lombard, AF Surgeon General's Office, (202/767-1736)

Capt. Michael Shelley, Armstrong Medical Research Lab, (513/255-5740)

Project Location: Armstrong Aerospace Medical Research Laboratory-Dayton, OH

DOE/EPA* Hazardous Waste Cooperative Effort

Title: Hazardous Waste Data Base Program

Project Objective(s): The objective of the Hazardous Waste Data Base Program is to further expand an existing EPA computerized data storage program to include additional incinerators, boilers, or similar industrial thermal equipment of specific interest to DOE.

Description: The EPA has been developing and utilizing a computerized system for recording and easily recalling for use a large inventory of incinerator, boiler, cement kiln, and other thermal destruction device data which EPA calls its "Hazardous Waste Data Base Program." This program has begun to serve the needs of EPA's RCRA and TSCA incineration permitting staff in Headquarters and in each of EPA's ten (10) Regional Offices. The data contained includes both design (e.g., size of unit, heat capacity, volume of chambers, type of design, etc.) and performance (design temperatures, measured destruction, performance parameters, etc.) information. The program is a useful tool in comparing new permit application cases to existing approved and working designs and in helping to make both research and permitting decisions by drawing upon past experience in the field.

Expected Start Date: FY 87

Expected Completion Date:

| | <u>FY 85</u> | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88</u> |
|-------------------------|--------------|--------------|--------------|--------------|
| EPA Resources Required: | 0 | 0 | 0 | \$225K |
| DOE Resources Required: | 0 | 0 | \$225K | \$225K |

EPA Project Coordinator:

Clyde J. Dial, HWERL (513/569-7528)

C.C. Lee, HWERL (513/569-7520)

DOE Project Coordinator:

Cathy Fore, ORNL, (615/574-7299)

Project Location: EPA, HWERL, Cincinnati, Ohio

DOO*/DOE Hazardous Waste Cooperative Effort

Title: Hazard Assessment Rating Methodology II (HARM II)

Project Objective(s): To refine Installation Restoration Program (IRP) site ratings, after completion of IRP Phase II, using site-specific data. To enable prioritization of IRP sites requiring Phase IV remediation.

Description: The Surgeon General of the U.S. Air Force has directed that the existing Air Force IRP prioritization system be upgraded to reflect actual site conditions. The first phase of the project is to refine hydrogeological and health/ecological toxicology factors and improve the pathway, receptor and toxicity scoring system of the HARM I. The second phase is to prepare a draft users manual, validate the model via on-site collaborative testing and prepare a final users manual.

Expected Start Date: 04/84

Expected Completion Date: 10/86

FY 85

FY 86

FY 87

DOE Resources Required: (Contract Administration only)

DOO Resources Required: \$17K \$250K \$ 38K

DOE Project Coordinator:

Dr. Lawrence Barnhouse, ORNL, (615/574-7393)

Dr. Ellen Smith, ORNL, (615/574-7396)

D.W. Burton, ORNL, (615/574-3767)

DOO Project Coordinator:

Lt. Col. Robert Lombard, USAF SGO, (202/767-1736)

Dr. Dee Ann Sanders, USAF OEHL, (512/536-2158)

Project Location: Oak Ridge National Laboratory

DDO*/EPA/DOE Hazardous Waste Cooperative Effort

Title: Multimedia Pollution Control for Metal-Finishing Operations

Project Objective(s): Develop a database of pollution control options in metal-finishing operations, determine process emissions factors, characterize toxic air emissions from chrome plating operations, develop an approach to optimizing the multimedia impacts of those operations and technologies, and apply the approach to an Army metal-finishing facility.

Description: A database of information on metal-finishing processes and their associated pollution problems will be assembled along with current and potential control methods. The emphasis will be on how materials are manipulated and what performance limits exist. The project will develop data which will define toxic pollutant emission parameters from applicable operations such as spray painting, chrome plating, degreasing and paint stripping. An environmental audit will be conducted on the metal-finishing processes at Sacramento Army Depot including current technology, mass flow balance cost estimates, and regulatory requirements. Process emissions testing will be conducted at Sacramento Army Depot and McClellan AFB, Air Logistics Center, to assess the degree of the toxic chromium emissions problem from typical chrome plating operations. An analysis of the existing environmental control technologies plus projections of multimedia emissions with various control options will be carried out. The control option review will result in a state-of-the-art summary of alternative control options and their multimedia impacts. Recommendations for further activities will be reported and possible modeling methods will be suggested.

Expected Start Date: April 1986

Expected Completion Date: September 1987

| | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88</u> |
|-------------------------|--------------|--------------|--------------|
| EPA Resources Required: | 0 | 100K | 50K |
| DDO Resources Required: | 154K | 300K | 50K |
| DOE Resources Required: | | | |

DDO Project Coordinator:

Robert Bartell, USATHAMA (301/671-2054)
David Renard, USATHAMA (301/671-2054)
Capt. Ray Peters, HQ AFESC/RDVW (904/283-4628)
Roger Gibbs, NSWC Dahlgren
Nick Olah, NCEL (805/982-4191)

EPA Project Coordinator:

Roger Wilmoth, WERL (513/569-7509)
John Burckle, WERL (513/569-7506)
Charles Darwin, AEERL (919/541-7633)

DOE Project Coordinator:

H.F. Bauman, DOE-Oak Ridge, (615/574-2037)

Demonstration Project Location: Acurex Corp., Mt. View, CA; Sacramento Army Depot, and McClellan AFB, Sacramento, CA

00D*/EPA/DOE Hazardous Waste Cooperative Effort

Title: The EM4 Systems Approach to 00D Installation Restoration, Environmental Monitoring, Mapping, Modeling and Management

Project Objective(s): The objective of this project is to develop a comprehensive approach to installation restoration data management by incorporating the latest advancements in environmental monitoring, mapping, modeling and data management.

Description: The EM4 systems approach provides a means for handling the staggering number of physical, biological, and socio-economical, environmental considerations within the IR decision-making process. Environmental monitoring methods such as, soil-gas sampling; remote environmental data collection; ground penetrating radar; and other remote sensing and field measurement techniques will be explored. Various computer mapping, geophysical modeling, and geographic information systems (GIS) will be evaluated for their use in subsurface plume analysis; dispersion modeling; trajectory prediction; cost-benefit analysis; and remedial action optimization. Long-term data management issues will be addressed by evaluation of specific technologies such as disposal, chemical treatment, and biodegradation processes. Short-term data management issues will be addressed through development of an automated spill contingency planning and updating system. Data for these complex issues will be managed using knowledge/computer-based information systems.

Expected Start Date: 10/01/86

Expected Completion Date: 09/30/90

| | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88</u> | <u>FY 89</u> | <u>FY 90</u> |
|-------------------------|--------------|--------------|--------------|--------------|--------------|
| 00D Resources Required: | | 360K | | | |
| EPA Resources Required: | | | | | |
| DOE Resources Required: | | | | | |

00D Project Coordinator:

Mary Lingua, NCEL (805/982-3310)

Marge Elliott, NCEL (805/982-3115)

Maj. Tom Walker, AFESC (904/283-4629)

Robert Bartell, USATHAMA (301/671-2054)

EPA Project Coordinator:

Ann Pitchford, EPA EMSL-LV (702/798-2366)

DOE Project Coordinator:

D.W. Burton, DOE-Oak Ridge (615/574-3767)

Demonstration Project Location: MCAS, Iwakuni, Japan; NAS Whidbey Island, WA; Fort Lewis, WA; MCAS Kaneohe Bay, HI

DOD/EPA* Hazardous Waste Cooperative Effort

Title: Development of Software for Genetic Toxicology Data Management

Project Objective(s): To determine and standardize procedures for analyzing data from short-term mutagenicity assays and to develop software packages to make these standardized procedures generally available for microcomputer users.

Description: Standardized data management and analysis procedures will be developed through consensus workshops comprised of nationally recognized experts in statistics and mutagenicity testing. These standardized procedures will be computerized for use on IBM compatible microcomputers. This data management and analysis system will allow more consistent collection and interpretation of genetic toxicology data and improve risk determination and decision making. Initial activities will concentrate on the Ames Salmonella mutagenicity assay and will be expanded to other assays as resources permit.

Expected Start Date: 09/85
Expected Completion Date: 08/88

| | <u>FY 85/86</u> | <u>FY 87</u> | <u>FY 88+</u> |
|-------------------------|-----------------|--------------|---------------|
| DOD Resources Required: | 50K | 50K | 50K |
| EPA Resources Required: | 75K | 75K | 75K |

DOD Project Coordinator:
Jesse J. Barkley/Mary Henry, USAMBROL, (301/663-2014)

EPA Project Coordinator:
Llewellyn R. Williams, EPA/EMSL-LV, (702/798-2138) or (FTS/545-2138)
J. Gareth Pearson, EPA/EMSL-LV, (702/798-2383) or (FTS/545-2383)

Demonstration Project Location: Research Triangle Park, NC - Integrated Laboratory Systems

Site Assessment
(26) EC² System for
Wetlands

DOD/EPA* Hazardous Waste Cooperative Effort

Title: Pollutant Evaluation, Containment, and Control (EC²) System for
Wetlands

Project Objective(s): Design, develop, and transfer to responsible DOD site management personnel a complete hardware and software data management system for Evaluation, Containment, and Control (EC²) of synthetic organic chemicals in wetland hazardous waste sites. Each site will receive a full hydrogeological transport characterization, a scan of the potential toxicants present, emplacement of climatological and hydrochemical monitoring equipment, and installation of EC² software systems developed from ongoing EPA research in Data Base Management Systems and chemical risk management Decision Support Systems. These systems will give site management officers the ability to continually monitor and predict the transport, fate, and potential effects of synthetic toxicants in response to subsequent climatological events.

Project Description: Approximately five sites per year will be nominated by DOD for implementation, with acceptance contingent upon evaluation for suitability by the EPA project team. At each site, EPA will recommend placement of suitable instrumentation and provide DOD personnel with both off-site (at a demonstration project conducted with the USGS) and on-site training so that DOD can assume full site management responsibilities; EPA will continue to be available in an advisory role for the full duration of the project. During the course of this project, EPA and cooperating investigators will be continuing to develop data management software, the scientific basis for risk evaluation of synthetic chemicals, and demonstration sites for evaluation of alternative monitoring systems and EC² software. All DOD sites will be brought to an equivalent state of competence by the end of the project period, including the provision of detailed final quality assurance guidelines, data management procedures, and software user's guides.

Expected Start Date: Oct 86

Expected Completion Date: Sep 91

| | | | | | |
|-------------------------|--------|--------|--------|--------|--------|
| | FY 87 | FY 88 | FY 89 | FY 90 | FY 91 |
| DOD Resources Required: | \$750K | \$750K | \$750K | \$750K | \$750K |
| EPA Resources Required: | \$100K | \$100K | \$100K | \$100K | \$100K |

EPA Project Coordinator:

Dr. Lawrence Burns, EPA/ERL-Athens, (404/546-3511, FTS/250-3511)

Dr. Harvey Holm, EPA/ERL-Athens, (404/546-3103, FTS/250-3103)

DOD Project Coordinator:

Dr. Robert Pierce, HQ DDA/COE, (202/272-0199)

Demonstration Project Location: TSD

EPA*/DOD/DOE Hazardous Waste Cooperative Effort

Title: Federal Workshop on Hazardous Waste Management for Federal Facilities

Project Objective(s): To hold an initial workshop among key technical and management staff within EPA, DOD, NIH, and other Federal agencies to develop a consistent and appropriate approach to hazardous waste disposal within the Federal waste generator/disposal sector regarding RCRA and/or CERCLA and TSCA compliance.

Description: Under RCRA, CERCLA, and TSCA, Federal facilities including DOD generating and/or disposing of hazardous waste are subject to the same storage, handling, and disposal regulatory requirements as the private sector. This workshop responds to individual concerns expressed to EPA from a number of Federal installations that additional guidance and technical assistance may be needed to discuss regulatory requirements, determine whether generators fall within various categories, and to review permitting activities for standard or recommended waste management technologies which can be applied, etc.

Expected Start Date: A Workshop is scheduled for the Fall of 1986
Expected Completion Date: 12/86

| | <u>FY 85</u> | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88</u> |
|-------------------------|--------------|--------------|--------------|--------------|
| EPA Resources Required: | 0 | \$3.5K | 0 | 0 |
| DOD Resources Required: | 0 | \$7.0K | 0 | 0 |
| DOE Resources Required: | 0 | 0 | \$5K | |

EPA Project Coordinator:

Clyde J. Dial, HWERL (513/569-7528)

C.C. Lee, HWERL (513/569-7520)

John Koutsandreas, OADEMA/ORD (202/382-5789)

DOD Project Coordinator:

Lt. Col. Robert Olfenbuttel, HQ AFESC/RDV (904/293-2097)

DOE Project Coordinator:

R.C. Sleeman, DOE-Oak Ridge (615/576-0850)

Demonstration Project Location: EPA Headquarters and EPA-Cincinnati
The Workshop is to be held in the greater Washington, DC area.

Site Assessment
(28) Marine Environments

DOD/EPA* Hazardous Waste Cooperative Effort

Title: Toxicological and Chemical Assessment of Hazardous Waste
Contaminants in Marine Sediments and Water

Project Objective(s): Develop, verify, and transfer to responsible Naval facilities personnel a documented protocol including toxicological and analytical methods to: (1) assess the extent of contamination in the marine environment; (2) determine the most appropriate remedial action for confirmed hazardous waste sites; and (3) evaluate the results of any corrective action program. The protocol will provide the Naval facilities site managers the ability to define, to predict, and to monitor the magnitude of environmental impacts as part of an Environmental Restoration Program. The protocol will emphasize real-time environmental measurements and assessment methodologies needed for the dynamic marine environment.

Project Description: The proposed project will be a joint effort between the Naval Ocean System Center and EPA/ORD personnel expanding upon existing experimental facilities. Specifically, the protocol will emphasize the following areas: (1) analytical methods suited for rapid field measurement of hazardous waste; (2) laboratory and field toxicological methods for determining the hazards of the possible numerous chemicals in a hazardous waste; (3) biological field methods for evaluating ecosystem response of the marine environment to hazardous waste; (4) field survey methodologies capable of mapping and characterizing the extent of hazardous waste in the marine environment; and (5) methods for predicting the transport, fate, and potential adverse effects of hazardous waste on marine environments. Workshops will be conducted jointly the Naval Ocean System Center and EPA/ORD personnel at various naval facilities on how to utilize the protocol.

Expected Start Date: Oct 86

Expected Completion Date: Sep 91

| | <u>FY 87</u> | <u>FY 88</u> | <u>FY 89</u> | <u>FY 90</u> | <u>FY 91</u> |
|-------------------------|--------------|--------------|--------------|--------------|--------------|
| DOD Resources Required: | \$150K | | | | |
| EPA Resources Required: | \$200K | \$200K | \$200K | \$200K | \$200K |

EPA Project Coordinator:

Dr. Norbert Jaworski, EPA/ERL-Narragansett, (401/789-1071; FTS/938-5087)

Dr. Jack Gentile, EPA/ERL-Narragansett, (401/789-1071; FTS/938-5087)

DOD Project Coordinator:

Dr. S. Yamamoto, NOSC, San Diego (619/225-6340)

Dr. Peter Seligman, NOSC, San Diego (619/225-7697)

DOD*/EPA Hazardous Waste Cooperative Effort

Title: The Destruction/Detoxification of Chlorinated Dioxins in Contaminated Soils with APEG Reagents

Project Objective(s): To evaluate and identify at the laboratory level the most effective chemical methods/reagents for destruction, under ambient conditions, of chlorinated dioxins (TCDD's) as contaminants in soils. The most effective reagent(s) identified in the laboratory evaluation will be tested under field conditions. Alkali metal polyethylene glycol (APEG) reagents will be considered.

Description: TCDD concentrations in soil can be reduced under laboratory conditions from 2000 ppb to less than 1 ppb. The technique involves chemical dechlorination of the chlorinated dioxins to water soluble, non-toxic products using low cost reagents. One reagent for chlorinated dioxin destruction, for example, is prepared from polyethylene glycol, potassium hydroxide and dimethylsulfoxide.

Both an on-site slurry process and an in-situ process are under development for different types of contaminated sites. In the slurry process, the contaminated soil is excavated, placed in an on-site reactor and processed for 1-2 hours at elevated temperatures to decompose the dioxins. In the in-situ process, the soil is treated in place by adding reagent directly to the soil followed by heating of the soil using radio frequency or solar techniques for 2-4 days. The EPA and USAF (Tyndall Air Force Base, Florida) are co-funding this research effort.

Accomplishments To Date: The Air Force has received a draft RCRA RD&D permit to test thermal and chemical treatments of dioxin-contaminated soils at the Naval Construction Battalion Center, Gulfport MS. Pilot-scale tests of APEG technology, both slurry and in situ processes, will be conducted starting in Oct 86.

Expected Start Date: 9/84**

Expected Completion Date: 9/87

| | <u>FY 85</u> | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88*</u> |
|-------------------------|--------------|--------------|--------------|---------------|
| EPA Resources Required: | | 305 | 230 | UNK |
| DOD Resources Required: | | 275 | ** | ** |

EPA Project Coordinator:

Clyde J. Dial, HWERL (513-569-7528)/Charles J. Rogers (513-569-7757)
Paul des Rosiers, OEET, (202/382-2722)

DOD Project Coordinator:

Capt. Ed Heyse, USAF; AFESC/IRDVN, (904-783-4628)

Project Location: Buffalo, NY and the Naval Construction Battalion Center, Gulfport, MS

** Demonstration effort is dependent upon success of field verification studies.

High Hazard Waste
(2) PCB Microbial Decontamination

DOO*/EPA Hazardous Waste Cooperative Effort

Title: PCB Decontamination at PWC, Guam

Project Objective(s): To decontaminate PCB in soil using alternative technology under controlled field conditions. If successful, the cost-effective process will be applied to other sites.

Description: The polychlorinated biphenyl (PCB) contamination was originated from long-term spillage (from 1945 through 1970's) at a transformer maintenance/services shop in Building 3009 at PWC Guam. The PCB-containing waste oil was transported by storm water from the spill site to a combination storm drainage ditch. It is estimated as much as 3,500 cubic yards of soil may have been contaminated by the PCB's. Cleanup of PCB-contaminated soil is mandatory for compliance with the law. The goal of this project is to achieve cleanup to required levels in a cost-effective manner using technology other than present methods, such as expensive incineration method and/or land disposal.

EPA Cincinnati (HWERL) is developing a chemical dechlorination method using the reagent polyethylene-glycol and potassium hydroxide (KPEG) in an elevated temperature environment. Laboratory treatability studies using soil samples from Guam are promising. Detox in Houston, Texas is conducting a biodegradation experiment. These alternative technologies are candidates for field demonstration based on their technical and economical feasibilities. An RDT&E effort for the alternative technology will be initiated after the success in laboratory treatability studies is achieved. Currently, the KPEG reactions have been confirmed in the lab at very small scale and a 60-gallon reactor will be applied to the Guam soils during the Fall of 1986.

Start Date: 1 November 1985

Expected Completion Date: 30 September 1986

| | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88</u> |
|-------------------------|------------------|--------------|--------------|
| EPA Resources Required: | To be determined | | |
| DOO Resources Required: | \$200K | T80 | T80 |

EPA Project Coordinator:

Clyde Dial, EPA/HWERL, (513/569-7529)

Dr. Charles Rogers, EPA/HWERL, (513/569-7757)

Paul des Rosiers, CEET, (202/382-2722)

DOO Project Coordinator:

Dave Olson, NFEC (202) 325-8176

Dr. D.S. Chan, NCEL (805) 982-4191.

Demonstration Project Location: PWC Guam.

High Hazard Wastes

(3) PCB Electrochemical Decontamination

DOD*/EPA Hazardous Waste Cooperative Effort

Title: Evaluation of Electrochemical PCB Decontamination Process

Project Objective(s): Evaluate an Environmental Research and Technology, Inc. (ERT) electrochemical process for on-site decontamination of askarel (PCB) or PCB contaminated transformers. The transformers can then be refilled with a substitute dielectric Fluid.

Description: We propose to test and evaluate the ERT Process on transformers at a Navy site in the San Diego area. ERT will need an EPA permit to conduct the test. During the process, PCB fluid is fed from the transformer to an electrochemical cell where PCBs and other chlorinated organic contaminants found in dielectric fluid (e.g., trichloroethylene and chlorobenzenes) are dechlorinated. End products are a substituted biphenyl organic product with fuel oil characteristics and an inorganic chloride brine. The biphenyl product can be burned and the inorganic brine disposed of as a hazardous waste. Transformers can be decontaminated on-line or off-line. There are a number of parameters that can be varied in the system operation. We plan to test various operating modes and determine the most effective method(s) to perform the process. ERT believes the process will be substantially less costly than transformer replacement; therefore, we will also evaluate the cost effectiveness of the process. The Navy Civil Engineering Laboratory and EPA's HWERL will evaluate the results.

Start Date: September 1985

Expected Completion Date: September 1986

| | <u>FY 85</u> | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88+</u> |
|-------------------------|--------------|--------------|--------------|---------------|
| EPA Resources Required: | None | | | |
| DOD Resources Required: | | \$300K | \$ 35K | |

EPA Project Coordinator:

Brian Westfall (513/569-7755)

Clyde Dial, HWERL (513/569-7528)

Paul des Rosiers, OEET, (202/382-2722)

DOD Project Coordinator:

Mary Lingua, NCCL, (805/962-3310)

Demonstration Project Location: San Diego, California (Navy Site to be determined)

DOE*/EPA Hazardous Waste Cooperative Effort

Title: Hazardous Waste Incineration

Project Objective(s): To document experience with the Los Alamos radioactive and hazardous waste incinerator, and to design and test a transportable, self-contained hazardous waste incinerator. The first purpose of this task is to document and make available to incinerator operators and designers within DOE and in general, the results of extensive experience in processing various forms of hazardous waste in the Los Alamos hazardous waste incinerator. A second objective is to design, construct and test a self-contained transportable incineration system that would serve the needs of several DOE installations without requiring the transport of hazardous waste.

Description: The recent experience in the incineration of hazardous waste forms will be documented in a third volume as an addendum to the two volumes which cover the incineration of combustible TRU waste. Modification required to receive, store, transport, and incinerate hazardous liquids, slurries, and gases will be described as well as modifications to the offgas treatment system and the system controls. The documentation will include drawings and other materials that will be useful to designers and operators of incinerators at other installations.

The experience gained in the above program will be applied to the conceptual design of a transportable hazardous waste incinerator. An economic evaluation will be made to compare the use of the transportable system to one or several fixed incinerators at major DOE installations, with varying degrees of transport of hazardous waste required. If the results of the evaluation are favorable, a transportable incinerator will be constructed and tested.

Expected Start Date: FY 1986

Expected Completion Date: FY 1989

| | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88</u> | <u>FY 89+</u> |
|-------------------------|--------------|--------------|--------------|---------------|
| EPA Resources Required: | | \$300K | \$300K | \$200K |
| DOE Resources Required: | \$150K | \$250K | \$300K | \$150K |

DOE Project Coordinator:

J.C. Parker, DOE-Oak Ridge (615/576-1591)

EPA Project Coordinator:

Frank Freestone, HWERL (201/321-6632)

Wade Ponder, AEERL (919/541-2813)

Demonstration Project Location: Los Alamos National Laboratory

DOE*/DOD/EPA Hazardous Waste Cooperative Effort

Title: Process Microwave Heating

Project Objective(s): To investigate the use of microwave heating to promote detoxification reactions in waste streams containing metals and/or organic and inorganic halides and nitrates. The purpose is to evaluate the feasibility and economics of microwave-assisted chemical processes for detoxification and volume reduction of polar waste streams.

Description: Several waste streams or simulated waste streams will be tested on a laboratory scale with metal removal processes, using a 600 W microwave heater. A bench scale variable frequency microwave reactor system of 5-10 KW will be designed and procured. Selected waste streams will be processed using this system. A preliminary economic evaluation will be carried out for the most promising processes to estimate the cost of microwave processing as compared to alternative waste treatment methods.

Expected Start Date: FY 1986

Expected Completion Date: FY 1989

| | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88</u> | <u>FY 89+</u> |
|-------------------------|--------------|--------------|--------------|---------------|
| EPA Resources Required: | | \$100K | \$100K | \$100K |
| DOE Resources Required: | \$160K | \$ 60K | \$ 50K | \$ 50K |

DOE Project Coordinator:

J.C. Parker, DOE-Oak Ridge (615/576-1591)

EPA Project Coordinator:

Ron Hill, HWERL (513/569-7861)

DOD Project Coordinator:

Wayne Sisk, USATHAMA, (301/671-2054)

Doug Downey, HQ AFESC/RDV, (904/283-2942)

Demonstration Project Location: Argonne National Laboratory

EPA*/DOO/DOE Hazardous Waste Cooperative Effort

Title: High Efficiency, Low NO_x Burner/Incinerator for Hazardous Waste

Project Objective(s): To support the design, fabrication and field evaluation of an alternative waste treatment system that consists of a burner/incinerator that has the dual capability of very high waste destruction efficiencies and very low NO_x emissions for nitrated wastes. This high performance burner system would provide a new alternative treatment process for onsite waste disposal.

Description: Current agency policy (RCRA) is to minimize hazardous waste landfilling. Thermal destruction is the most effective alternative for combustible wastes and one which also provides resource recovery and on-site treatment. When the wastes are nitrated, thermal destruction will generate high emissions of oxides of nitrogen (NO_x) unless control measures are used. These emissions may conflict with Clean Air Act (CAA) provisions as well as with regional, state and local permitting requirements. Conventional technology is inadequate for simultaneous high waste destruction efficiency and low NO_x emissions. The proposed burner/incinerator has a unique capability for very high waste destruction efficiencies while suppressing oxides of nitrogen to levels below conventional combustors with conventional fuels. Prior work by EPA in the 1980-1985 period has brought the technology to the field prototype stage of development; moderate additional support is proposed to carry out the field evaluation and attain commercialization status for use by EPA and other government agencies for on-site waste minimization with recycle/reuse, as well as by the private sector. This burner also has potential for use in Germany if our military bases are required to meet stringent, new low NO_x standards for acid deposition control.

Recommended Approach: EPA will coordinate with DOO to perform the design, installation, and field evaluation of the burner/incinerator for cofiring nitrated waste with heavy oil at a candidate military site with a package boiler in the 100M to 200M Btu/hr capacity range and with the accessibility for waste cofiring.

Start Date: May 1985

Expected Completion Date: March 1989

| | <u>FY 85/FY 86</u> | <u>FY 87</u> | <u>FY 88</u> | <u>FY 89</u> |
|-------------------------|--------------------|--------------|--------------|--------------|
| EPA Resources Required: | \$400K | | | |
| DOO Resources Required: | | \$350K | \$500K | \$350K |

EPA Project Coordinator:

Joseph A. McSorley AEERL (919/541-2920) (FTS/629-2920)

DOE Project Coordinator:

J.C. Parker, DOE-Oak Ridge (615/576-1591)

DOO Project Coordinator:

Dr. Fu, NCEL, (805/982-4675)

Demonstration Project Location: To be selected, preferably a military base with nitrated wastes.

NOTE: The funding for FY 87, 88, 89 of \$1200K will provide for the completion of the proposed field evaluation and burner demonstration.

Alternative Technologies
(4) Incineration

DOO/EPA*/DOE Hazardous Waste Cooperative Effort

Title: Destruction of Plastic Media Blasting (PMB) Residues

Project Objective(s): Demonstrate and evaluate a method of efficiency and safely disposing of plastic media blasting residues from paint stripping operations.

Description: The WERL-Cincinnati, AEERL/RTP and the U.S. Army (USATHAMA) successfully demonstrated the efficiency and safety of using PMB for removing paint from military structures and vehicles. The demonstration proved that a reduction of greater than 90% of the solid/liquid waste and 100% of the toxic air emissions could be eliminated by using PMB. Mil. Spec. paint strippers which can be replaced by PMB contain up to 70% methylene chloride and lesser quantities of additional solvents. Most of the solvents are eventually released to the atmosphere. The remaining 10% solid/liquid waste, however, must be disposed of in an environmentally safe manner. Thus, PMB promises to eliminate Toxic Air Emissions, however only a portion of the solid/liquid waste discharges from paint stripping operation. This program will provide the final link to make PMB a total environmentally acceptable process by defining a method to safely dispose of the remaining waste products. The first method to be investigated will be the use of incineration.

Expected Start Date: 09/86

Expected Completion Date: 10/87

| | <u>FY 87</u> | <u>FY 88</u> | <u>FY 89</u> | <u>FY 90</u> |
|-------------------------|--------------|--------------|--------------|--------------|
| EPA Resources Required: | - | - | - | - |
| DOO Resources Required: | \$100K | - | - | - |

EPA Project Coordinator:

Charles Darwin, EPA/AEERL, (919/541-7633) (FTS/629-7633)

DOO Project Coordinator:

Robert Bartell, USATHAMA (301/671-2054)

Capt. Ray Peters, HQ AFESC/ROV (904/283-4628)

Jerry Zimmerle, NCEL (805/982-4191)

DOE Project Coordinator:

J.C. Parker, DOE-Oak Ridge (615/576-1591)

Demonstration Project Location: Variable

Alternative Technologies
(5) Co-Firing Hazardous Waste

EPA/DOO/DOE Hazardous Waste Cooperative Effort

Title: Co-Firing Hazardous Waste in U.S. Navy Boilers

Project Objective(s): To provide technical assistance to the Navy in their planning of waste disposal in boilers based on EPA's ongoing research experience, engineering analysis methodology, and proposed regulatory developments.

Description: The EPA and DGA/Department of the Navy (Port Hueneme, California) have entered into an Interagency Agreement (IAG) to facilitate formal EPA assistance from HWERL's Thermal Destruction Branch to Navy programs to increase their use of industrial-type boilers for thermal destruction/disposal of combustible hazardous waste in boilers at various Naval installations in the U.S. The Navy will provide contractual support to consultant firms utilizing EPA's guidance to implement environmental and performance evaluations. EPA personnel are provided a travel budget for technical meetings and on-site observations, etc. under the IAG. EPA and Navy concerns to be addressed include the following:

- o Incinerability of various Navy waste streams
- o Engineering Analysis predictions of performance vs. boiler designs
- o Performing of necessary stack and environmental testing
- o Continuous monitoring techniques
- o Heavy or toxic metals, PICs, ORE, etc.

Expected Start Date: 06/86

Expected Completion Date: 08/87 (w/provisions for extensions)

| | <u>FY 85</u> | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88</u> |
|-------------------------|--------------|--------------|--------------|--------------|
| EPA Resources Required: | 0 | 0 | 0 | 0 |
| DOO Resources Required: | \$100K | \$200K | \$200K | \$200K |

EPA Project Coordinator:
C.C. Lee, HWERL (513/569-7520)

DOO Project Coordinator:
Dennis Knudsen, NSWC, (703/663-8621)

DOE Project Coordinator:
D.W. Burton, DOE-Jak Ridge (615/574-3767)

Demonstration Project Location: Dahlgren, Virginia and various other locations

Alternative Technologies
(6) Infrared Incineration

DOD*/EPA/DOE Hazardous Waste Cooperative Effort

Title: Assessment of Infrared Incineration Process for Destruction of
Hazardous Waste Contaminated Soils

Project Objective(s): The objective of this project is to assess the practicality and feasibility of using a mobile hazardous waste destruction unit on-site to cleanup contaminated soils at remote activities.

Description: A cost effective on-site incineration method is needed for destruction of contaminated soil from past hazardous waste sites and spills at remote activities, where the cost of transporting this waste to the Continental United States (CONUS) is prohibitive. The need is especially acute in areas where disposal facilities are lacking and have not been planned for by commercial companies.

Expected Start Date: 10/01/86

Expected Completion Date: 09/30/89

FY 86

FY 87

FY 88

FY 89

DOD Resources Required:

40K

EPA Resources Required:

DOD Project Coordinator:

Mary Lingua, NCEL (805/982-3110)

Bill Powers, NCEL (805/982-5465)

EPA Project Coordinator:

Dr. C.C. Lee, HWERL (516/569-7520)

DOE Project Coordinator:

J.C. Parker, DOE-Oak Ridge (615/576-1591)

Demonstration Project Location: Pacific Division Activities, Pearl Harbor,
HI and Guam

Alternative Technologies
(7) Heavy Metal Extraction

ODD/EPA Hazardous Waste Cooperative Effort

Title: Heavy Metal Extraction Technology for Use in Treatment of Contaminated Soils and Sludges and Metal Finishing Wastes

Project Objective(s): Develop technology for treatment of heavy metal contaminated soils, sludges, and metal finishing wastes as an alternative to landfill disposal.

Description:

- a. Review existing technologies for the extraction of heavy metals from sludges/soils. Generation of new concepts for same.
- b. Evaluate concepts with respect to a given set of performance criteria. Select most promising concepts.
- c. Perform laboratory work to confirm feasibility of promising heavy metal extraction technologies in adherence to performance criteria.
- d. Develop a plan for field demonstration of selected heavy metal extraction technology.
- e. Field demonstration of heavy metal extraction technology.

Accomplishments:

- a. Coordinated Army effort with EPA, 28 Feb 86.
- b. Initiated Army's Conceptual Design Contract, 15 Mar 86.
- c. Roy Weston has contracted with ODD for the review and evaluation steps. EPA is waiting until Weston makes a recommendation, at which time appropriate comments will be provided.

Plans:

- a. Select specific technology for field testing, 29 Feb 87.
- b. Complete Lab/Bench studies to support specific selection, 31 Dec 87.
- c. Initiate field demonstration, 1 May 88.
- d. Technical report, 1 Oct 88.

Expected Start Date: Dec 1985

Expected Completion Date: Sept 1988

| | FY 85 | FY 86 | FY 87 | FY 88+ |
|-------------------------|-------|-------|--------|--------|
| EPA Resources Required: | 0 | 0 | 150K** | 250K** |
| ODD Resources Required: | 0 | 124K | 125K | |

EPA Project Coordinator:

Gary Howell, EPA/HWERL, (513/569-7756)

Clyde Dial, EPA/HWERL, (513/569-7528)

ODD Project Coordinator:

Erik Hangeland, USATHAMA, (301/671-2054)

Demonstration Project Location: Candidate Sites - Letterkenny Army Depot, PA; Twin Cities Army Ammunition Plant, MN; Anniston Army Depot, AL.

** Funds are currently not available with EPA's budget.

Alternative Technologies
(8) Supercritical Water Oxidation

DOE*/EPA Hazardous Waste Cooperative Effort

Title: Supercritical Water Oxidation

Project Objective(s): To investigate the oxidation of hazardous organics in supercritical water, to determine reaction kinetics and to understand the mechanisms and the reactive species involved. The purpose is to destroy hazardous organic compounds in water.

Description: The chemical reactions occurring during the oxidation of organics in supercritical water will be investigated. A laboratory high pressure autoclave will be designed, constructed, and tested collaboration with MIT. The kinetics of oxidation for selected hazardous and model organic compounds will be studied using gas chromatography and other methods, and the effect of oxygen versus air will be explored. Reaction mechanisms will be studied and reactive species identified. Methods will be explored for reducing the threshold concentration of organic required for a self-sustaining reaction. The economics of the process will be estimated, and the potential for full scale processing determined.

Expected Start Date: FY 1986

Expected Completion Date: FY 1989

| | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88</u> | <u>FY 89+</u> |
|-------------------------|--------------|--------------|--------------|---------------|
| EPA Resources Required: | | \$175K** | \$300K** | \$200K** |
| DOE Resources Required: | \$160K | \$100K | \$150K | \$150K |

DOE Project Coordinator:

D.W. Burton, DOE-Oak Ridge (615/574-3767)

EPA Project Coordinator:

Ron Hill, HWERL, (513/569-7861)

Demonstration Project Location: Los Alamos National Laboratory

** These amounts do not necessarily represent committed funding from EPA.

DOE*/DOO/EPA Hazardous Waste Cooperative Effort

Title: Paramagnetic Separation of Waste

Project Objective(s): To investigate the magnetic separation of paramagnetic components from hazardous waste mixtures or suspensions. The goal of this task is to separate hazardous and/or reclaimable components of sludges, slurries, or granular mixtures from a waste stream, through differences in their magnetic susceptibility. The feasibility of separating heavy metals such as Hg, Pb, and U from selected DOE waste streams will be investigated.

Description: Samples of candidate waste streams will be obtained and tested in a bench scale Frantz open gradient magnetic separator (OGMS). This technique can separate materials that are diamagnetic (repulsed by a magnet) as well as paramagnetic. These tests will indicate whether the waste stream is separable by OGMS or by high gradient magnetic separation (HGMS), in which paramagnetic constituents are collected on a magnetic matrix. Selected waste streams will be processed by OGMS or HGMS to obtain data needed for the design of full scale systems. The economics of magnetic separation will be determined and used to evaluate the systems as compared with other methods of treatment or disposal.

Expected Start Date: FY 1986

Expected Completion Date: FY 1989

| | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88</u> | <u>FY 89+</u> |
|-----------------------------|--------------|--------------|--------------|---------------|
| EPA/DOO Resources Required: | | \$100K** | \$100K** | \$100K** |
| DOE Resources Required: | \$140K | \$150K | \$150K | \$150K |

DOE Project Coordinator:

D.W. Burton, DOE-Oak Ridge (615/574-3767)

EPA Project Coordinator:

Clyde Dial, HWERL, (513/684-7528)

DOO Project Coordinator:

Dr. Walter Zachritz, HQ AFESC/ROV (904/293-4628)

Demonstration Project Location: Oak Ridge National Laboratory

** Indicates funding requested by DOE, not funding committed by DOO or EPA.

DOE*/DOO/EPA Hazardous Waste Cooperative Effort

Title: Waste Acid Detoxification and Reclamation

Project Objective(s): To develop and demonstrate processes and process equipment that reduce the volume, quantity, and toxicity of metal-bearing waste acids. The goal is to (1) remove principal metal ions such as Zr, Cu, and U from waste acid without reducing acid concentration, (2) recycle the resulting rejuvenated acid, (3) reclaim anions such as NO_3^- and F^- as acid from wastes by distillation with H_2SO_4 , and (4) produce a residual sulfate waste with low concentrations of nitrates, heavy metals, and radionuclides.

Description: Methods for pretreating acid streams, including precipitation, electrowinning, and membrane technology, will be evaluated based on previous laboratory work. Selected technologies will be demonstrated on a large bench scale (i.e., 95 liter vessels) with actual waste acids to obtain engineering scaleup data. Bench-scale system will include reaction tank and filter press for precipitation as well as a distillation test loop for equilibrium and material studies. This equipment will be used in FY 1986 and FY 1987. Based on information obtained from tests, an economic evaluation will be completed to determine the feasibility of pilot plant construction and testing starting in the third fiscal year.

Expected Start Date: FY 1986

Expected Completion Date: FY 1990

| | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88</u> | <u>FY 89+</u> |
|-----------------------------|--------------|--------------|--------------|---------------|
| EPA/DOO Resources Required: | | \$300K** | \$250K** | \$240K** |
| DOE Resources Required: | \$170K | \$250K | \$175K | \$200K |

DOE Project Coordinator:

H.F. Bauman, DOE-Oak Ridge (615/574-2037)

EPA Project Coordinator:

Clyde Dial, HWERL, (513/684-7528)

Alden Christianson, WERL (513/569-7406)

DOO Project Coordinator:

Dennis Wynne, USATHAMA, (301/671-2466)

Capt. Ray Peters, HQ AFESC/ROV, (904/283-4628)

Jerry Zimmerle, NCEL (805/982-4191)

Demonstration Project Location: Pacific Northwest Laboratory

** Indicates funding requested by DOE, not funding committed by DOO or EPA.

DOE*/DOD/EPA Hazardous Waste Cooperative Effort

Title: By-Product Expert System

Project Objective(s): To modify an existing Expert System (using "artificial intelligence") to identify potentially beneficial products that can be made from specified organic wastes, and to plan and evaluate the conversion methods required. The goal is to elucidate pathways for converting hazardous waste compounds into products of greater utility and economic benefit and/or lower toxicity.

Description: An expert system exists for finding synthesis pathways for a specified compound starting with commercially available materials and using known synthesis methods. The chemical knowledge base of this system will be expanded, and the "chemical direction" of the program reversed, so that starting with a specified waste compound, the program will search out pathways to possible products of greater value.

Several important user interfaces will be provided. One will be the provision to use a structural diagram to describe the compound to be used as the starting material. Another will provide a running account of the synthesis program's progress using structural diagrams of intermediates and reagents. A third will describe the chemical pathways discovered, including instructions for carrying out the synthesis in the laboratory. A fourth will be a feedback path from the user to the knowledge base, to permit the user to tailor the program to the requirements of new applications. The practical implementation of these user support features will require the speed and power of a LISP machine.

Expected Start Date: FY 1986

Expected Completion Date: FY 1989

| | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88</u> | <u>FY 89+</u> |
|-----------------------------|--------------|--------------|--------------|---------------|
| EPA/DOD Resources Required: | | \$150K** | \$150K** | \$100K** |
| DOE Resources Required: | \$200K | \$200K | \$200K | \$150K |

DOE Project Coordinator:

D.W. Burton, DOE-Oak Ridge (615/574-3767)

EPA Project Coordinator:

Alden Christianson, WERL (513/569-7406)

DOD Project Coordinator:

Bob Riggins, CERL (800/872-2375)

Capt. Ray Peters, HQ AFESC/ROV (904/293-4628)

Demonstration Project Location: Oak Ridge National Laboratory

** Indicates funding requested by DOE, not funding committed by DOD or EPA.

DOE*/DOD/EPA Hazardous Waste Cooperative Effort

Title: Process Material Substitution

Project Objective(s): To examine current processes in which the substitution of one or more input materials would reduce or eliminate the generation of a hazardous waste. The goal of this project is to identify process materials which lead to or become hazardous waste streams, and to obtain the data needed to justify substituting other, non-hazardous materials, without significantly changing the overall process.

Description: Process waste streams, beginning with DOE's Idaho Falls facilities and proceeding to other installations, will be evaluated to determine possible areas of material substitution. The DOE HAZWRAP Waste Information Network data bases will be used as much as possible. A literature search will be conducted to assess the potential for substituting non-hazardous materials for the hazardous materials identified. Potential substitutions will be evaluated to select those that appear promising, and to determine which of those could be implemented immediately and those that would require further study.

Potential substitutions will be discussed with the engineering departments responsible for the process involved. Preliminary process designs and cost estimates will be prepared. Laboratory studies will be planned and carried out as required. A report with recommendations will be prepared for each substitution that appears feasible and cost effective.

Expected Start Date: FY 1986

Expected Completion Date: FY 1989

| | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88</u> | <u>FY 89+</u> |
|-----------------------------|--------------|--------------|--------------|---------------|
| EPA/DOD Resources Required: | | \$ 50K** | \$ 50K** | \$ 50K** |
| DOE Resources Required: | \$140K | \$200K | \$100K | \$100K |

DOE Project Coordinator:

H.F. Bauman, DOE-Jak Ridge (615/574-2037)

EPA Project Coordinator:

Alden Christianson, WERL (513/569-7408)

DOD Project Coordinator:

Bob Riggins, CERL (800/872-2375)

Capt. Ray Peters, HQ AFESC/RDV (904/283-4628)

Mike Roberts, NCEL, (804/982-4193)

Demonstration Project Location: EG&G Idaho

** Indicates funding requested by DOE, not funding committed by DOD or EPA.

UST
(1) Leak Detection Methods

000/EPA* Hazardous Waste Cooperative Effort

Title: Leaking Underground Storage Tanks (UST) - Leak Detection and Testing Methods

Project Objective(s): Evaluate precision and accuracy of commercial methods; identify needs, define approach to solutions; develop technology or alternative methods.

Description: In support of the 1984 HSWA Subtitle I requirements, the EPA has embarked on a program to evaluate commercially available leak detection and testing methods for underground storage tanks in the 8,000 gallon size range containing gasoline and motor fuels. 000 has recognized the need to evaluate the applicability of such methods to do a variety of sizes of underground storage tanks (primarily larger) for a number of petroleum products. Joint process reviews - technical and program, - and exchanges of information will be accomplished via project coordinators identified below.

Accomplishments to Date: EPA's test apparatus is due to be completed in June 1986 and will be installed. EPA expects to spend \$500K in the next two years on this project.

Expected Start Date: FY 86

Expected Completion Date: FY 88

| | <u>FY 85</u> | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88+</u> |
|-------------------------|--------------|--------------|--------------|---------------|
| EPA Resources Required: | | \$500K | \$500K | \$500K |
| 000 Resources Required: | | | Unk | |

EPA Project Coordinator:

Richard Field, EPA/HWERL, (201/321-6674)
Ron Hill, EPA/HWERL, (513/569-7861)

000 Project Coordinator:

L. Peter Joice, OSD, (202/653-1273)

Demonstration Project Location: EPA, Edison, NJ, and selected 000 and contractor's facilities

EPA/DOD*/DOE Hazardous Waste Cooperative Effort

Title: External Monitoring Devices for Underground Storage Tanks

Project Objective(s): This project will investigate and attempt to validate the use of external devices for detecting leaks in underground tanks storing JP-4 jet fuels. The project will include actual field testing of devices in areas of known JP-4 leakage. Leaks in existing underground storage tanks are extremely difficult to detect using current inventory systems which rely on metered pumps and dip sticks. Current level and pressure sensing devices are improving in-tank monitoring, but give no indication of where a suspected leak is occurring. High sensitivity external devices could pinpoint tank leaks.

Description: Initial research will include a review of existing test data on emerging external leak detection devices. A field test site will be selected at an underground tank storage area and a real or simulated JP-4 leak will be used as a detection target. Several monitoring devices will be tested at varying distances from the leak to determine the limits of detection and reliability of the devices. This procedure will be repeated at another site with different soil conditions. The plan is to test both in sandy and tight clay soils.

Accomplishments to Date: AFESC proposes to do this work in coordination with on-going work at EPA EMSL.

Expected Start Date: 10/86

Expected Completion Date: 03/88

| | <u>FY 85</u> | <u>FY 86</u> | <u>FY 87</u> | <u>FY 88</u> | <u>FY 89+</u> |
|-------------------------|--------------|--------------|--------------|--------------|---------------|
| EPA Resources Required: | | | Unk | | |
| DOD Resources Required: | | | \$150K | \$350K | |

EPA Project Coordinator:

Jeffrey Van Ee, EMSL-LV, (701/798-2367)

DOD Project Coordinator:

Mari B. Bindal, HQ AFESC/ROVW (904/293-2942)

Bill Randall, Defense Logistics Agency (202/274-6124)

DOE Project Coordinator:

J.F. McBrayer, DOE-Oak Ridge (615/576-8916)

Demonstration Project Location: To be determined.

APPENDIX B

EPA's

SUPERFUND INNOVATIVE TECHNOLOGY EVALUATION

(SITE)

PROGRAM

SUPERFUND INNOVATIVE TECHNOLOGY EVALUATION PROGRAM¹

INTRODUCTION

EPA's Office of Research and Development (ORD), joining with the Office of Solid Waste and Emergency Response (OSWER), has initiated the Superfund Innovative Technology Evaluation (SITE) Program. The SITE Program will help EPA find, test, and encourage the use of new ways to destroy, stabilize or otherwise treat hazardous wastes, rather than just burying them in the ground.

By establishing the SITE Program, EPA is responding not only to the public and to Congress, but also to internal Agency reports on the need for a program to support and encourage the development of alternative and innovative technologies.

The overall goal of the SITE Program is to maximize the use of alternatives to land disposal at Superfund sites. To help accomplish this goal, the program will provide reliable cost and performance information on technologies that offer an alternative to land disposal. This information will be generated by conducting full-scale demonstrations of alternative technologies at actual Superfund sites.

BACKGROUND

The Environmental Protection Agency's Superfund Program is designed to clean up hazardous waste sites around the country. It has been underway for five years, in which time action has been taken at over 450 Superfund sites to address longterm problems created by hazardous waste. Action taken at more than half of these sites has involved burying the hazardous wastes in specially prepared landfills.

Recently, members of the scientific community, the public, and Congress have expressed concern that it is time to move away from reliance on land disposal for handling hazardous wastes. EPA agrees with these concerns, and in response, the Agency has altered certain policies regarding hazardous waste disposal in landfills. The policies include the Superfund Off-Site Disposal Policy issued in May 1985, and the Resource Conservation and Recovery Act (RCRA) Land Disposal Restriction regulations proposed in January, 1986. In addition to these policies, the revised National Contingency Plan (NCP) under Superfund incorporates the new agency policy. These policies clearly indicate the Agency's preference for new treatment alternatives, as they describe in detail what actions must be taken to move forward in this direction. More technical and policy guidance on the use and availability of alternative technologies is expected soon.

¹ This write-up has been taken directly from EPA's Background paper on the Superfund Innovative Technology Evaluation Program.

SITE PROGRAM PHASES

The four phases of the SITE Program listed below will be conducted simultaneously. They will be integrated so that information from one phase can be used in another. Each phase is designed to meet a particular objective of the SITE Program.

The SITE Program will be periodically evaluated to determine how information produced from all phases may be used to encourage the selection of new technologies at Superfund sites.

Phase I: Identify and Remove Impediments

Trained engineers, economists, and policy analysts will study the obstacles placed in the way of technologies becoming being accepted and used to manage hazardous wastes. Resolving issues dealing with permit requirements, treatment residue disposal, liabilities, procurement requirements, and public interest will also help pave the way to increased use of treatment alternatives.

Phase II: Conduct a Demonstration Program

EPA will conduct a demonstration program for new technologies at selected Superfund sites. From these demonstrations, EPA will be able to provide performance and cost information for the new technology. This information will help EPA decide when to use the technology at other hazardous waste sites.

The demonstration program will be an ongoing effort by EPA. EPA plans to start several demonstrations as soon as possible to obtain valuable information on the most advanced technologies. Demonstrations will occur on a yearly schedule from then on. A report will be published annually for public comment which will list specific site technology demonstrations planned for that year.

Phase III: Develop Procedures and Policies

One of the basic provisions of Superfund is that the cleanup action taken at a site must be "cost-effective". New cost-effectiveness guidelines which consider long-range reliability and performance of the alternative technologies will be written. These guidelines will facilitate the use of alternative technologies which will provide a more permanent method of disposing of hazardous wastes. These procedures and policies will be available by mid 1986.

Phase IV: Research and Development

ORD will establish a research program to continually evaluate and encourage the development of emerging alternative technologies through pilot testing to full-scale demonstrations. This phase will be initiated in the spring of 1986 and will be ongoing thereafter.

THE DEMONSTRATION PHASE: A SUMMARY

Phase II, the Demonstration Phase, will be the most publically visible of the four phases. Actual work will begin at Superfund sites during the demonstration phase and the new technologies will be evaluated. While the agency is moving ahead with the SITE Program, the full legislative requirements of the program will not be known until Superfund has been reauthorized. The currently proposed legislation calls for demonstration at 10 Superfund sites per year and a program budget of between \$20 and \$25 million. Key events in the demonstration phase are summarized here:

Advertise in Commerce Business Daily

A notice announcing the availability of a request for proposals will be placed in the Commerce Business Daily (CBD) each year. Developers of new and innovative technologies are asked to write to EPA to obtain the information necessary for them to submit proposals for demonstrating their technology. Trade journals, conferences, and literature searches will also be used to seek out appropriate technologies.

Select Technologies

Potential new technologies will be carefully screened by OSWER and ORD. The screening process will be competitive and will take several months. To pass the screening, the technology must show promise to perform better than current methods, and have some other advantage such as a good potential for lower costs or the ability to treat a particularly difficult hazardous waste. The technology must have been sufficiently tested in the laboratory to show it works at that level or is ready for full-scale field testing. The necessary equipment must already be built, or be available for use by the time of the demonstration. Technologies already proven useful at Superfund sites will not normally be tested.

Match to Sites

Many of the new technologies may only be suited for specific kinds of wastes in specific settings. Using the expertise and knowledge in EPA Headquarters and the EPA Regions, technologies will be matched with wastes and available Superfund sites. This process will take approximately two months. While most demonstrations will take place on-site, some technologies may be tested at commercial hazardous waste sites or at special testing facilities operated by EPA or the developer. Factors such as risk, public interest, expense, disposal of residues and involvement of potentially responsible parties will all be considered when matching sites and wastes with technologies.

Develop and Implement Site-Specific Community Relations Programs

Once a site has been selected, a community relations plan will be developed. Through the implementation of this plan, the ideas and suggestions of local residents will be sought. The community will be

introduced to the SITE Program and its role at their local site. Information on the specific technologies will be shared, and the public will be invited to comment during the demonstration process. Implementation of community relations activities will parallel the demonstration itself.

Conduct Demonstration

After reviewing and incorporating comments on the site-specific demonstration plans, EPA will enter into a contract, letter of agreement, or cooperative agreement with the developer of the technology. The demonstration will then begin, and will last from between 1 and 24 months, depending upon the time it takes to gather information on the usefulness of the technology. The developer will usually provide the equipment and be responsible for its operation at the demonstration sites. The technology will treat actual Superfund wastes during the test, but since it is only a demonstration, it will not be expected to cleanup all the waste at the site. If necessary, another standard technology will be used to handle the remaining waste. EPA will develop quality assurance and quality control procedures for the demonstrations and will be responsible for conducting the evaluation of the technology.

Complete Evaluation and Distribute Information

At the close of each demonstration, the results of all tests will be evaluated by EPA. If the results are positive, the technology could be applied at other similar Superfund sites. Agency policies and procedures will be modified to encourage the use of these and other alternative technologies.

The results of the evaluation of each new technology will be made available throughout the hazardous waste removal industry by EPA. A technology transfer program will be developed to ensure the distribution of accurate information as quickly as possible. Further applications of the new technology will be studied.